

COMPACT DISC PLAYER

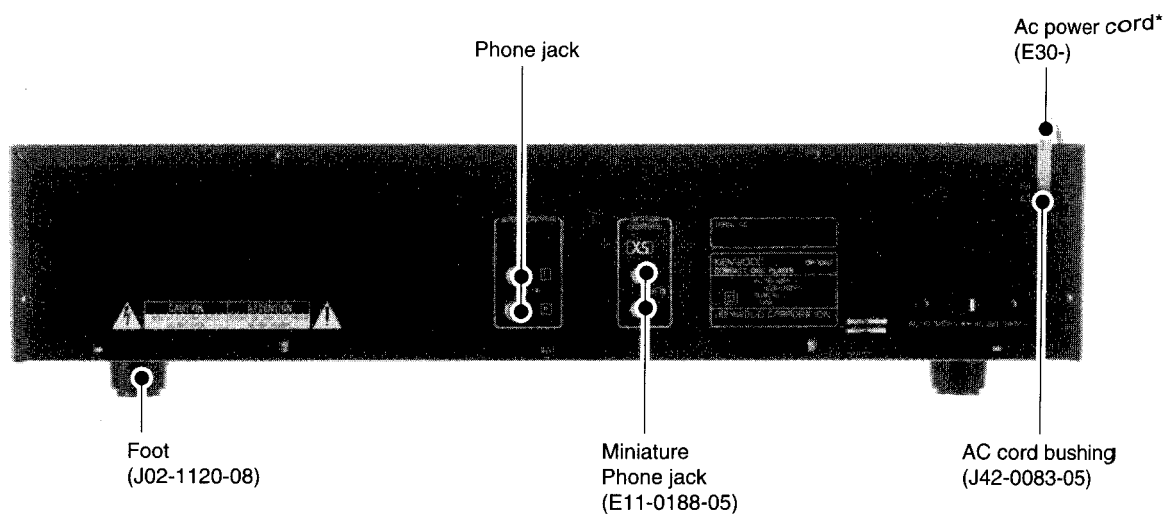
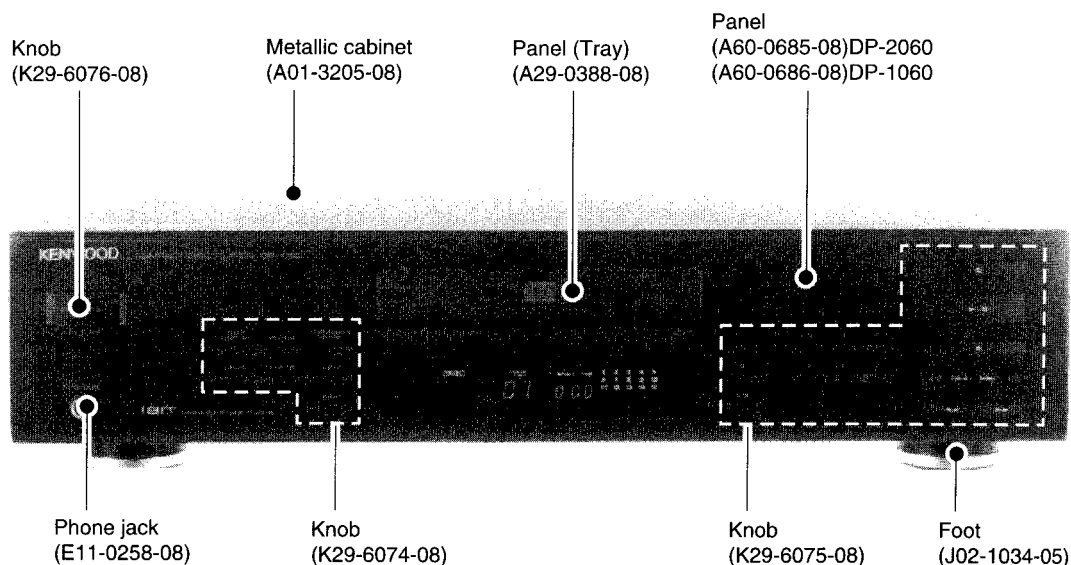
# DP-1060/2060

## SERVICE MANUAL

# KENWOOD

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B51-4978-00 (K) 3880



In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD Corp. certifies this equipment conforms to DHHS Regulations No. 21 CFR 1040.10, Chapter 1, Subchapter J.

**DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM**

Photo is DP-1060

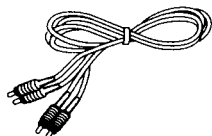
External view of DP-2060 is same as DP-1060



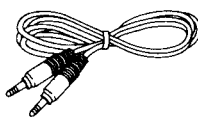
## ACCESSORIES/CAUTIONS

### Accessories

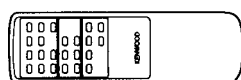
- Audio cord ..... 1  
(E30-0505-05)



- System control cord ..... 1  
(E30-2733-05)

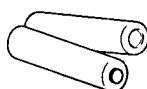


- Remote control unit ..... 1  
(DP-2060 only)  
(A70-0983-05)



Battery cover  
(A09-0170-08)

- Batteries (R6/AA) ..... 2  
(DP-2060 only)

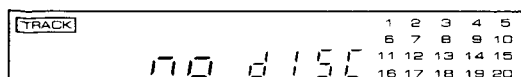


### Cautions

#### Note related to transportation and movement

Before transporting or moving the CD PLAYER, carry out the following operations.

1. Turn the power ON but do not load a disc.
2. Wait a few seconds and verify that the display shown appears.
3. Turn the power OFF.



#### Beware of condensation

When water vapor comes into contact with the surface of cold material, water drops are produced.

If condensation occurs, correct operation may not be possible, or the unit may not function correctly.

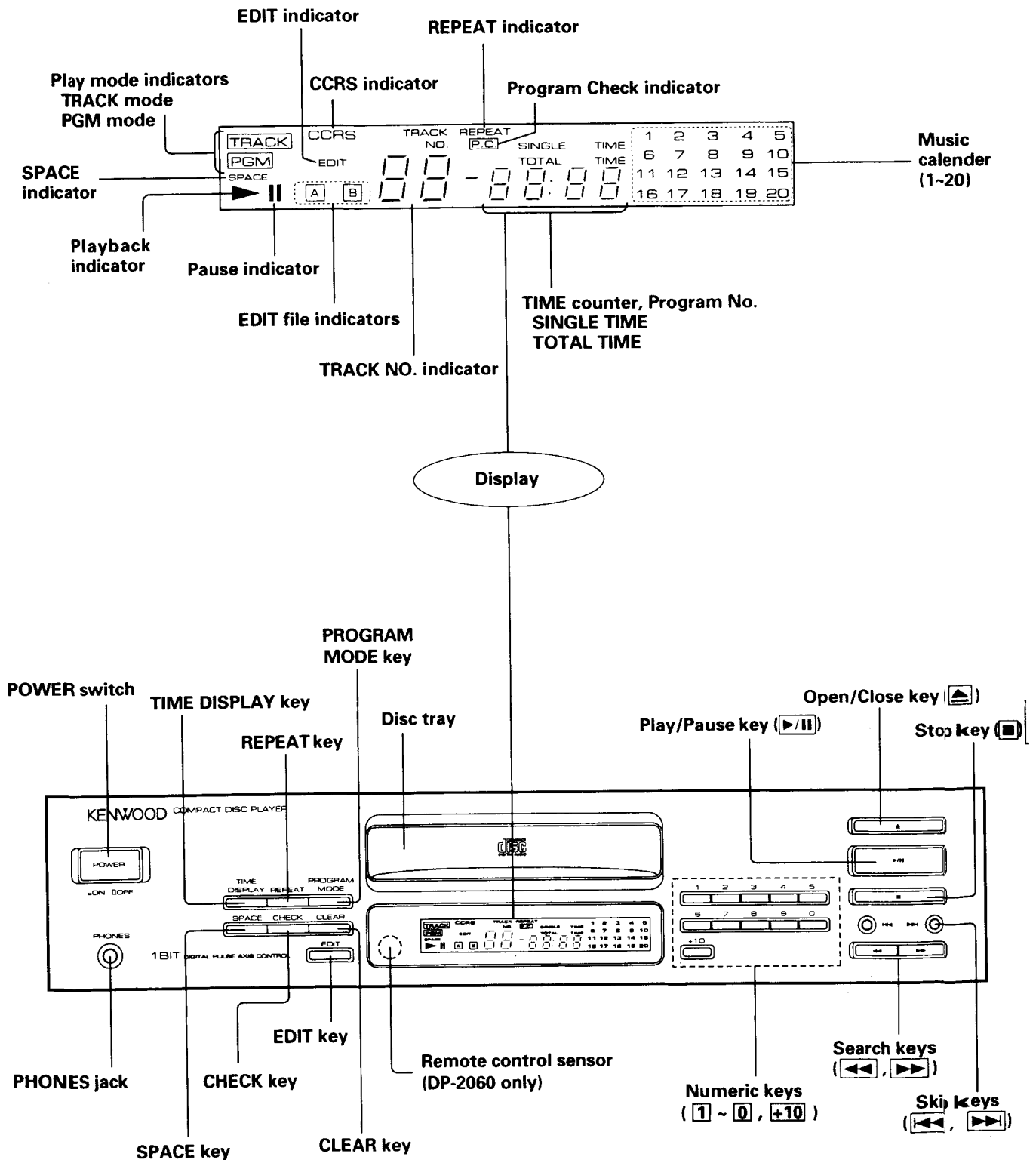
This is not a malfunction, however, the unit should be dried. (To do this, turn the POWER switch ON and leave the unit as it is for several hours.)

Be especially careful in the following conditions:

- When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
- When a heater starts operating.
- When the unit is brought from an air-conditioned place to a place of high temperature with high humidity.
- When there is a large difference between the internal temperature of the unit and the ambient temperature, or in conditions where condensation occurs easily.



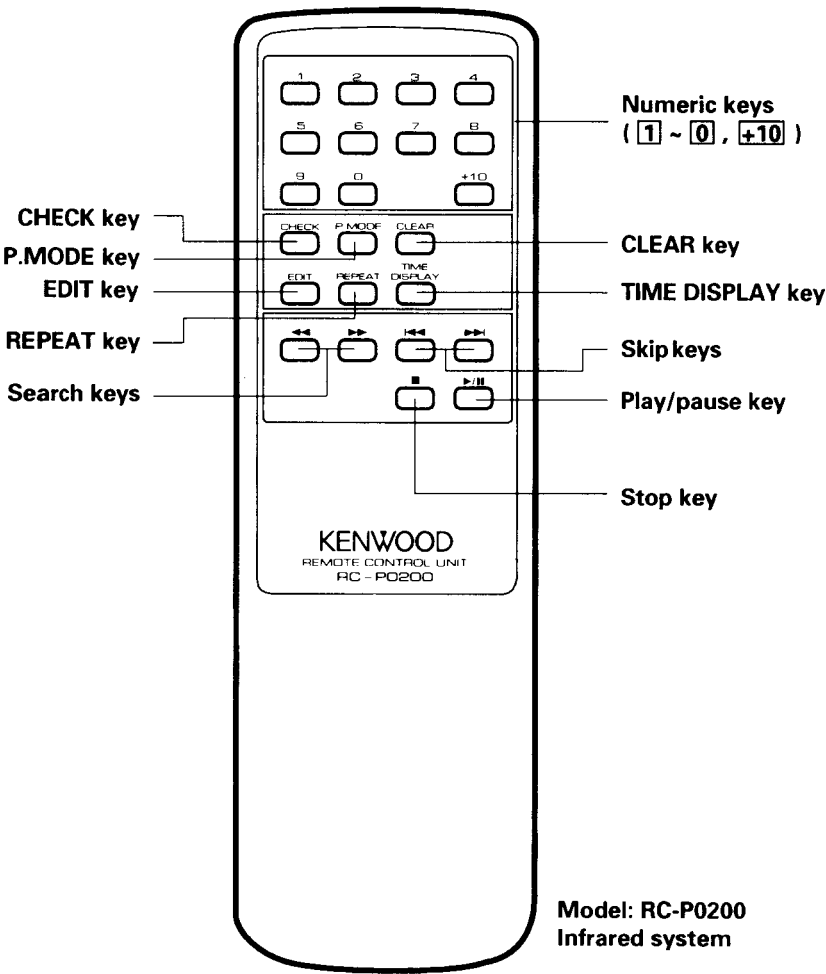
## CONTROL





REMOTE CONTROL

The operations of each are the same as those of the keys in the unit.



■ Loading batteries

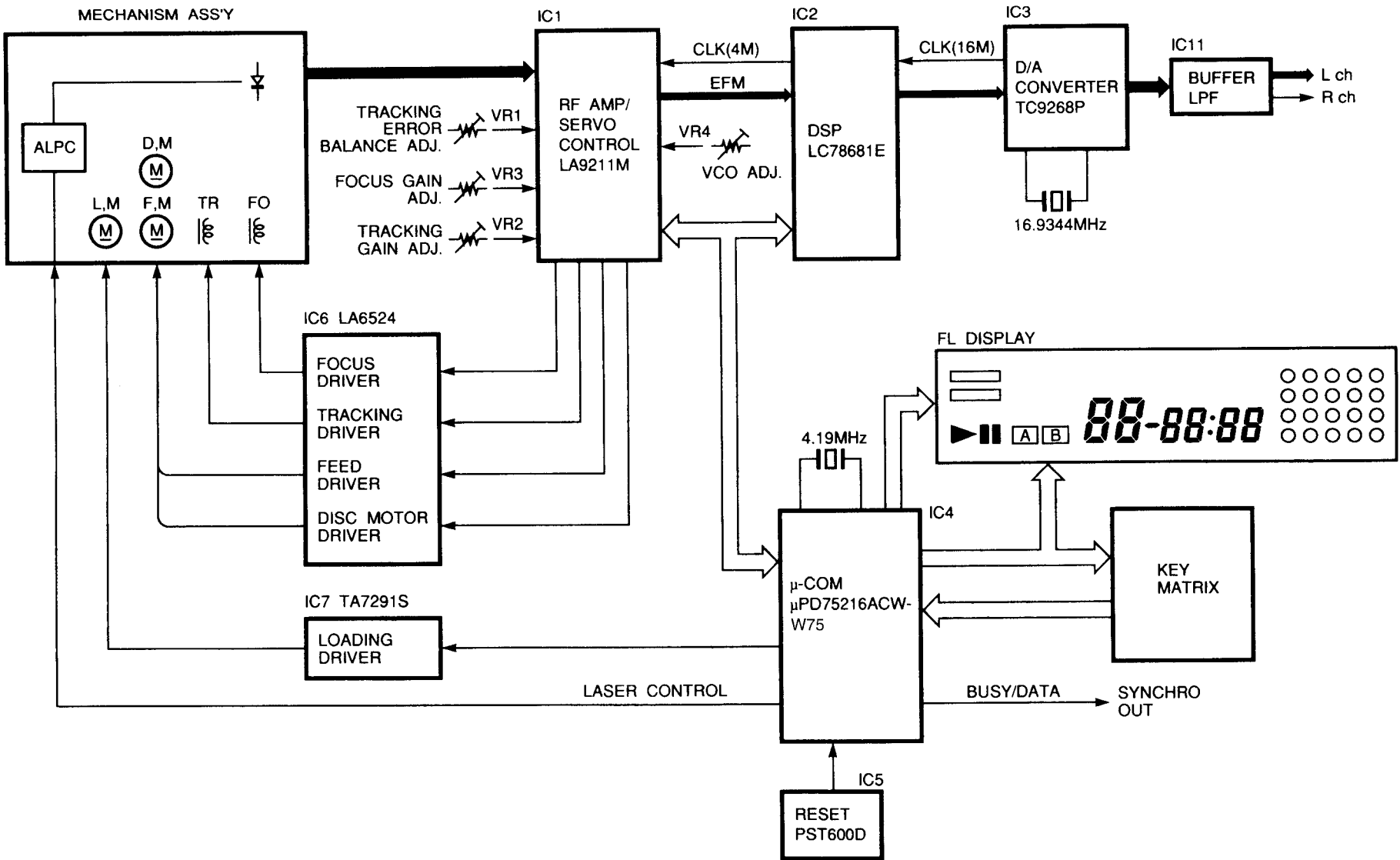
**1** Remove the cover.

**2** Insert batteries.

Insert two batteries (R6/AA) as indicated by the polarity marking.

**3** Close the cover.





**BLOCK DIAGRAM**

DP-1060/2060

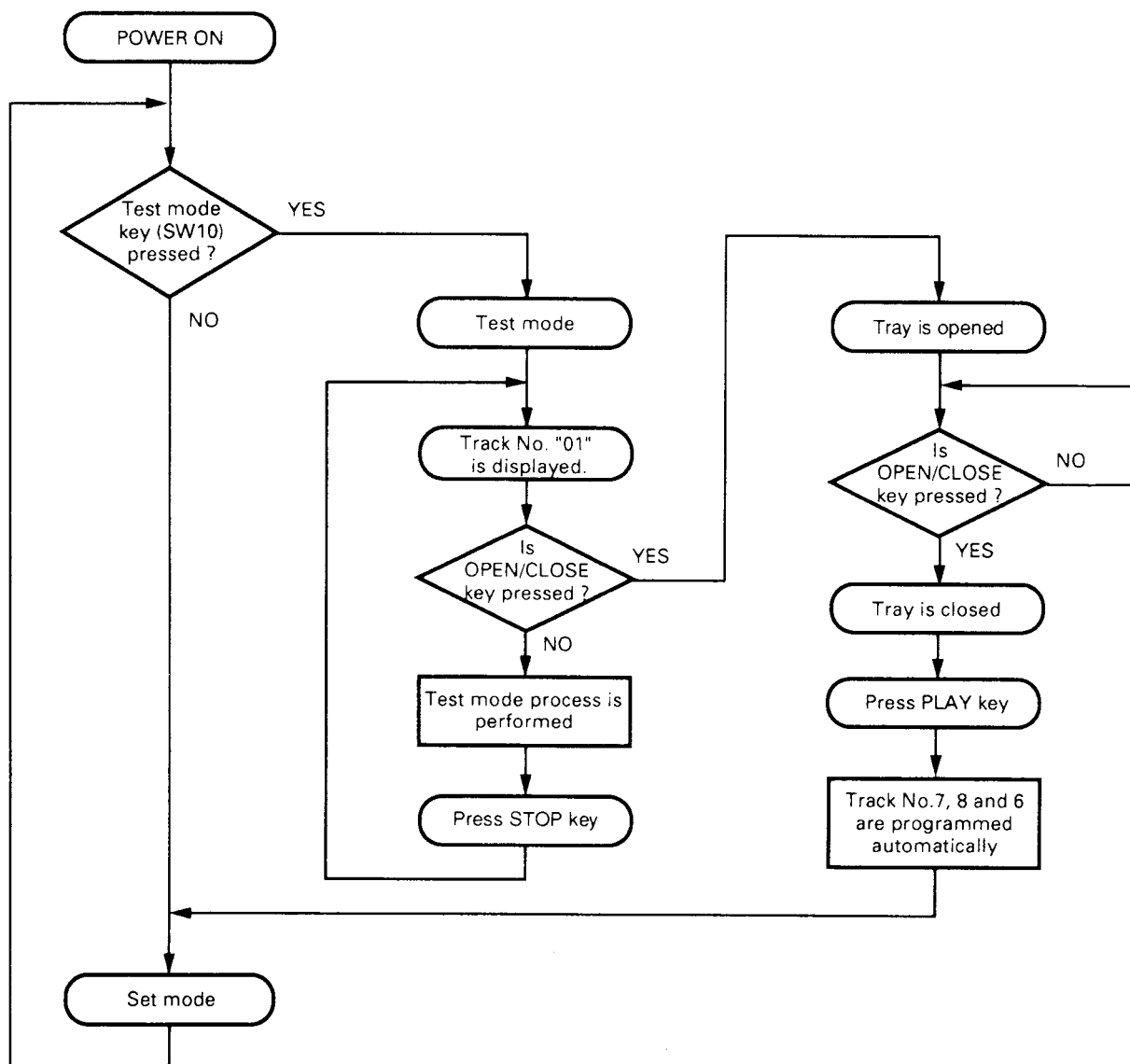


## CIRCUIT DESCRIPTION

### 1. Test mode

#### 1-1. Setting the test mode

This microprocessor built in this unit can be put to TEST MODE (SW10).





## CIRCUIT DESCRIPTION

## 1-2. Key and functions valid in test mode

| No.              | Input key                  | Function  | Track No. display  |     |      |   |   |   |                  |   |   |     |     |      |           |       |  |  |  |  |     |   |   |   |   |  |                  |   |   |     |     |           |       |  |  |  |  |   |
|------------------|----------------------------|---|--|-----|------|---|---|---|------------------|---|---|-----|-----|------|-----------|-------|--|--|--|--|-----|---|---|---|---|--|------------------|---|---|-----|-----|-----------|-------|--|--|--|--|---|
| 1                | PLAY                       | (1) Focusing servo ..... ON<br>(2) Tracking servo ..... ON<br>(3) Feed vervo ..... ON   | TRACK NO.<br>05<br>↓<br>Displayed for a few seconds after<br>completion (1), (2) and (3).<br>↓<br>Disc Track No. is displayed. |     |      |   |   |   |                  |   |   |     |     |      |           |       |  |  |  |  |     |   |   |   |   |  |                  |   |   |     |     |           |       |  |  |  |  |   |
| 2                | CHECK or<br>Number "0" key | (1) Focusing servo ..... ON<br>(2) Tracking servo ..... OFF<br>(3) Feed servo ..... OFF   | TRACK NO.<br>03  |     |      |   |   |   |                  |   |   |     |     |      |           |       |  |  |  |  |     |   |   |   |   |  |                  |   |   |     |     |           |       |  |  |  |  |   |
| 3                | STOP                       | (1) Focusing servo ..... OFF<br>(2) Tracking servo ..... OFF<br>(3) Feed servo ..... OFF  | TRACK NO.<br>01  |     |      |   |   |   |                  |   |   |     |     |      |           |       |  |  |  |  |     |   |   |   |   |  |                  |   |   |     |     |           |       |  |  |  |  |   |
| 4                | ▶▶                         | In the STOP mode, moves the pickup slightly toward the outer position of disc.<br>When feed servo is ON, sets the track gain to "H".  | -  |     |      |   |   |   |                  |   |   |     |     |      |           |       |  |  |  |  |     |   |   |   |   |  |                  |   |   |     |     |           |       |  |  |  |  |   |
| 5                | ◀◀                         | In the STOP mode, moves the pickup slightly toward the inner position of disc.<br>When feed servo is ON, sets the track gain to "L".  | -  |     |      |   |   |   |                  |   |   |     |     |      |           |       |  |  |  |  |     |   |   |   |   |  |                  |   |   |     |     |           |       |  |  |  |  |   |
| 6                | UP<br>▶▶                   | Turns all FL display lamps ON.  | TRACK NO.<br>88  |     |      |   |   |   |                  |   |   |     |     |      |           |       |  |  |  |  |     |   |   |   |   |  |                  |   |   |     |     |           |       |  |  |  |  |   |
| 7                | DOWN<br>◀◀                 | Turns all FL display lamps OFF. "TRACK NO." is lighted.   | TRACK NO.<br>88  |     |      |   |   |   |                  |   |   |     |     |      |           |       |  |  |  |  |     |   |   |   |   |  |                  |   |   |     |     |           |       |  |  |  |  |   |
| 8                | +10                        | Playback Track No.1 under High-speed mode (If not open tray, SPACE key<br>function is available.)   | -  |     |      |   |   |   |                  |   |   |     |     |      |           |       |  |  |  |  |     |   |   |   |   |  |                  |   |   |     |     |           |       |  |  |  |  |   |
| 9                | SPACE                      | Set playback mode to High-speed or Normal.  | -  |     |      |   |   |   |                  |   |   |     |     |      |           |       |  |  |  |  |     |   |   |   |   |  |                  |   |   |     |     |           |       |  |  |  |  |   |
| 10               | P. MODE                    | Track No. 7, 8, and 6 (High-speed) are programmed and playback from Track<br>No.7. The test mode is canceled.   | -  |     |      |   |   |   |                  |   |   |     |     |      |           |       |  |  |  |  |     |   |   |   |   |  |                  |   |   |     |     |           |       |  |  |  |  |   |
| 11               | OPEN/CLOSE                 | When the tray is opened then closed. Track No. 7, 8, and 6<br>are programmed and set is in STOP mode.<br>The test mode is canceled.   | TRACK NO.<br>00  |     |      |   |   |   |                  |   |   |     |     |      |           |       |  |  |  |  |     |   |   |   |   |  |                  |   |   |     |     |           |       |  |  |  |  |   |
| 12               | Numeric key<br>(1 ~ 9)     | Jumps tracks as shown below.<br><table><tr><td>Key</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td>Number of tracks</td><td>1</td><td>4</td><td>128</td><td>512</td><td>1000</td></tr><tr><td>Direction</td><td colspan="5">Outer</td></tr><tr><td>Key</td><td>6</td><td>7</td><td>8</td><td>9</td><td rowspan="2"></td></tr><tr><td>Number of tracks</td><td>1</td><td>4</td><td>128</td><td>512</td></tr><tr><td>Direction</td><td colspan="5">Inner</td></tr></table> | Key  | 1   | 2    | 3 | 4 | 5 | Number of tracks | 1 | 4 | 128 | 512 | 1000 | Direction | Outer |  |  |  |  | Key | 6 | 7 | 8 | 9 |  | Number of tracks | 1 | 4 | 128 | 512 | Direction | Inner |  |  |  |  | - |
| Key              | 1                          | 2   | 3  | 4   | 5    |   |   |   |                  |   |   |     |     |      |           |       |  |  |  |  |     |   |   |   |   |  |                  |   |   |     |     |           |       |  |  |  |  |   |
| Number of tracks | 1                          | 4   | 128  | 512 | 1000 |   |   |   |                  |   |   |     |     |      |           |       |  |  |  |  |     |   |   |   |   |  |                  |   |   |     |     |           |       |  |  |  |  |   |
| Direction        | Outer                      |   |  |     |      |   |   |   |                  |   |   |     |     |      |           |       |  |  |  |  |     |   |   |   |   |  |                  |   |   |     |     |           |       |  |  |  |  |   |
| Key              | 6                          | 7   | 8  | 9   |      |   |   |   |                  |   |   |     |     |      |           |       |  |  |  |  |     |   |   |   |   |  |                  |   |   |     |     |           |       |  |  |  |  |   |
| Number of tracks | 1                          | 4   | 128  | 512 |      |   |   |   |                  |   |   |     |     |      |           |       |  |  |  |  |     |   |   |   |   |  |                  |   |   |     |     |           |       |  |  |  |  |   |
| Direction        | Inner                      |   |  |     |      |   |   |   |                  |   |   |     |     |      |           |       |  |  |  |  |     |   |   |   |   |  |                  |   |   |     |     |           |       |  |  |  |  |   |
| 13               | REPEAT                     | (1) Tray ..... Opened<br>(2) Laser ..... ON<br>The REPEAT function is canceled when the tray is closed by pressing the tray.<br>"REPEAT" figures is lighted.  | TRACK NO.<br>02  |     |      |   |   |   |                  |   |   |     |     |      |           |       |  |  |  |  |     |   |   |   |   |  |                  |   |   |     |     |           |       |  |  |  |  |   |

REPEAT mode : Press "REPEAT" key → Press "OPEN/CLOSE" key → Press "REPEAT" key...

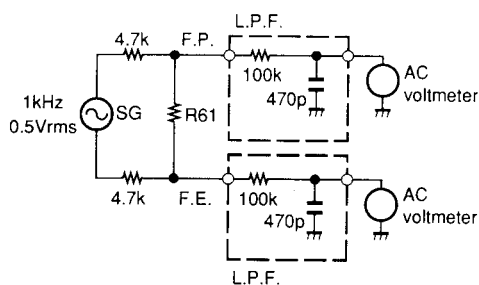


## ADJUSTMENT

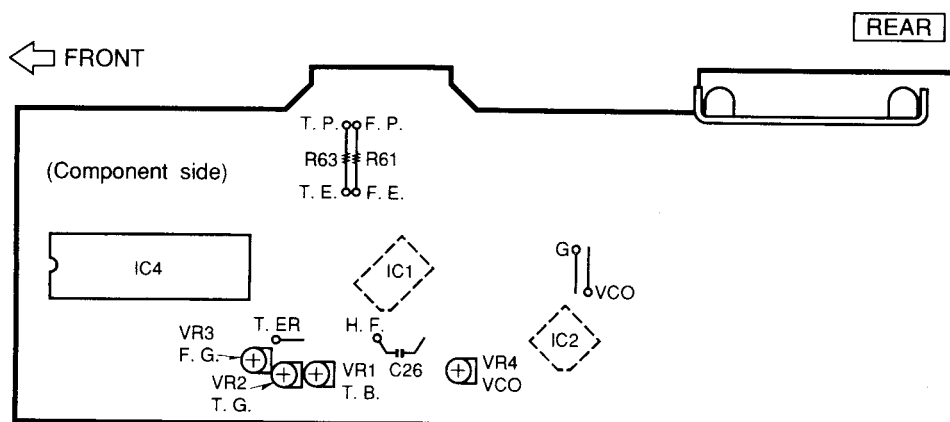
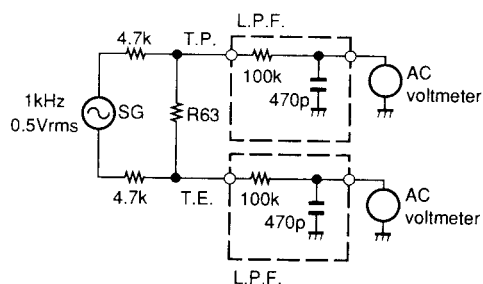
| No. | ITEM                    | INPUT SETTING   | OUTPUT SETTING   | PLAYER SETTING  | ALIGNMENT POINT | ALIGN FOR  | FIG. |
|-----|-------------------------|---|--|---|-----------------|--|------|
| 1   | VCO                     | Test disc<br>Type 4   | Connect the frequency counter to "VCO" and GND.                            | Turn on the SW10 (TEST MODE) to enter the test mode. Press the STOP key. Then, confirm that the display is "01"             | VR4             | 4.05MHz $\pm$ 15kHz  | (a)  |
| 2   | TRACKING ERROR BALANCE  | Test disc<br>Type 4   | Connect the oscilloscope to "T.ER".  | Press the OPEN/CLOSE key to open the tray. Reset to TEST mode. Then, press the CHECK key. Confirm that the display is "03". | VR1             | Symmetry between upper and lower patterns, or DC=0 $\pm$ 0.05V | (b)  |
| 3   | FOCUS GAIN              | Test disc<br>Type 4<br>Apply signal of 1kHz, 0.5Vrms to R61(F.P. - F.E.). | Connect a L.P.F. to R61 (F.P. - F.E.), to which connect two AC voltmeters. | Press the PLAY key. Confirm that the display is "05".   | VR3             | Two VTVMs should read the same value.                          | (c)  |
| 4   | TRACKING GAIN           | Test disc<br>Type 4<br>Apply signal of 1kHz, 0.5Vrms to R63(T.P. - T.E.). | Connect a L.P.F. to R63 (T.P. - T.E.), to which connect two AC voltmeters. | Press the PLAY key. Confirm that the display is "05".   | VR2             | Two VTVMs should read the same value.                          | (d)  |
| 5   | H.F. LEVEL CONFIRMATION | Test disc<br>Type 4   | Connect the oscilloscope to "H.F.".  | Press the PLAY key. Confirm that the display is "05".   | -               | 1.5Vp-p $\sim$ 1.5Vp-p   | (e)  |

(NOTE) Type 4 disc : SONY VEDS-18 TEST DISC or equivalent.  
Adjustment procedures are in TEST MODE.

(c) Focus gain



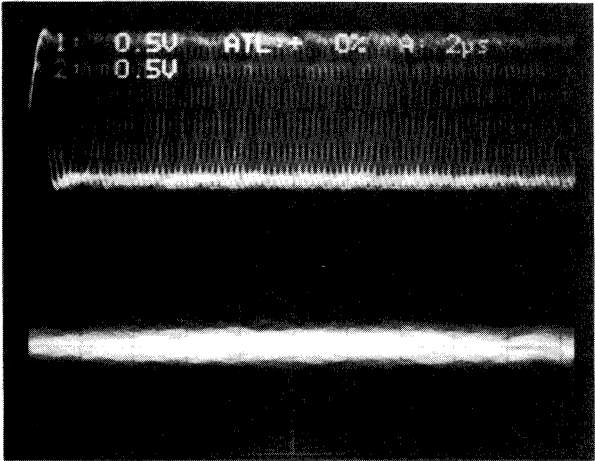
(d) Tracking gain





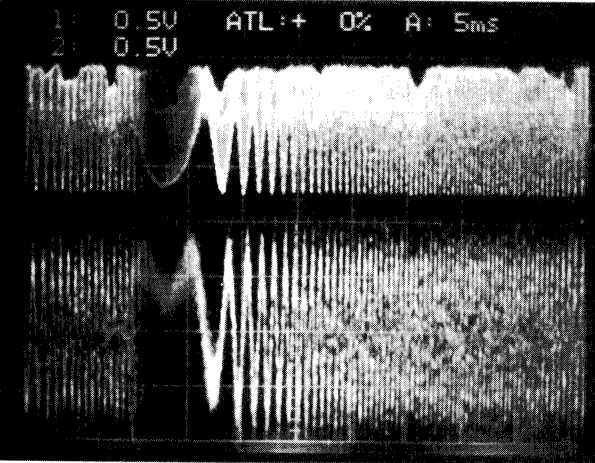
ADJUSTMENT

RF level, TE waveform



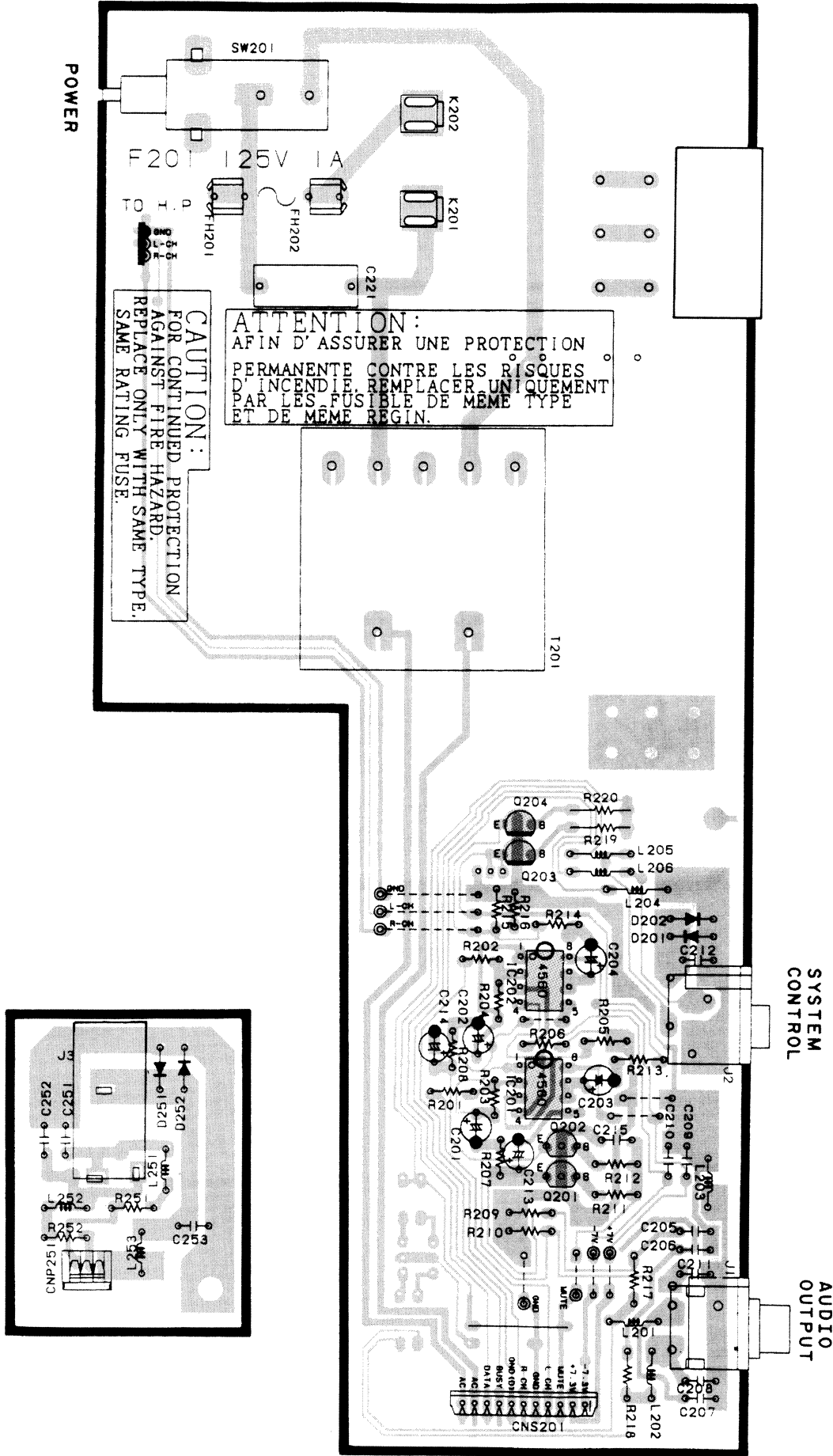
- RF signal and E.Spot signal in test mode (PLAY).
- If the diffraction grating has been adjusted properly, the influence of triggering is observed on the E.Spot waveform of approx. 18μs after RF signal, in the form of a projection.

(b) Tracking error balance



- RF signal and T.Error signal; in test mode (Focusing ON). (Disc type 4)
- Adjust T.Error so that the waveform is symmetrical above and below 0V. (VR 1)

PC BOARD (COMPONENT SIDE VIEW)



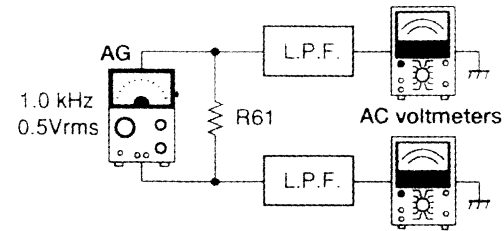
Refer to the schematic diagram for the value of resistors and capacitors.



## PC BOARD (COMPONENT SIDE VIEW)

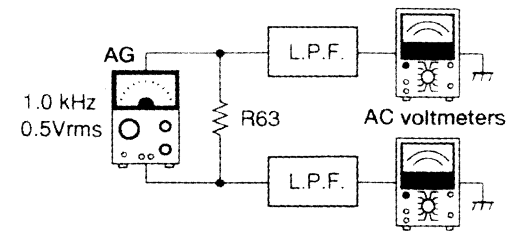
(c) Focus gain :

Two VTVMs should read the same value.



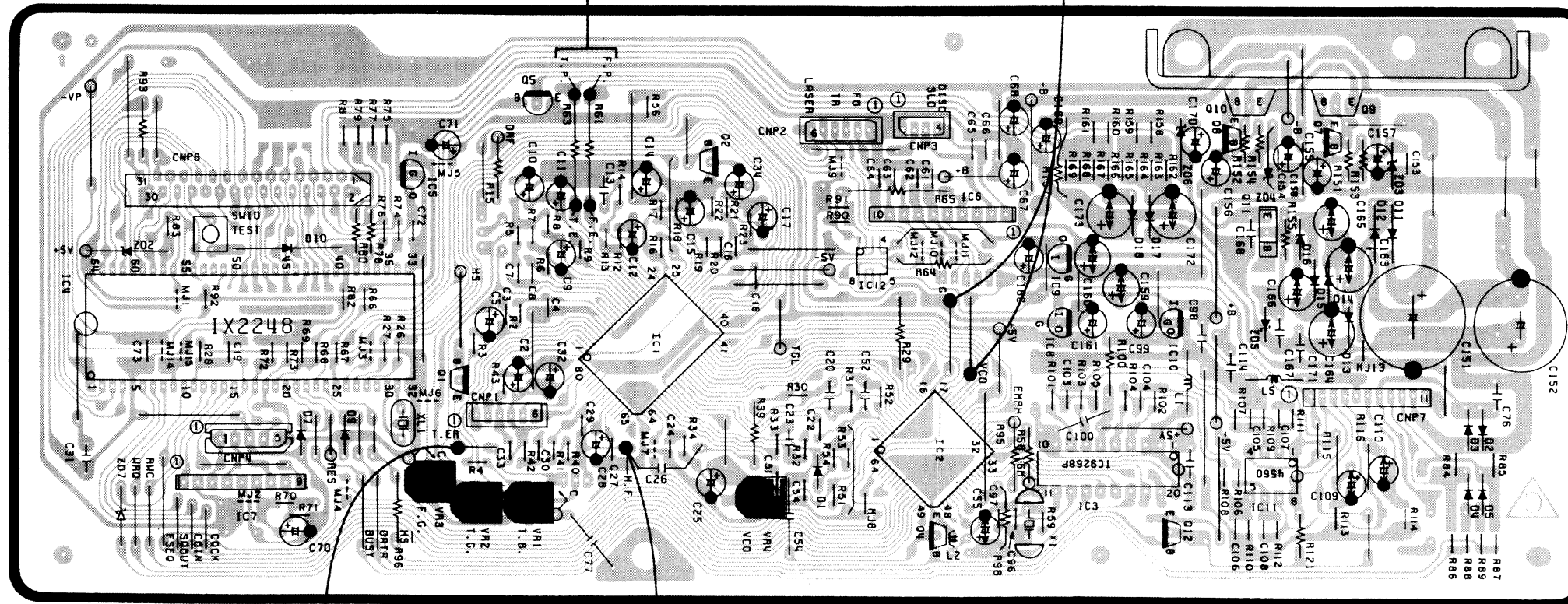
(d) Tracking gain :

Two VTVMs should read the same value.



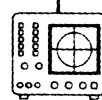
Frequency counter

(a) VCO :  $4.05\text{MHz} \pm 15\text{kHz}$



(b) Tracking error balance :

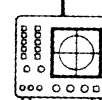
Symmetry between  
upper and lower  
or  $DC=0 \pm 0.05V$



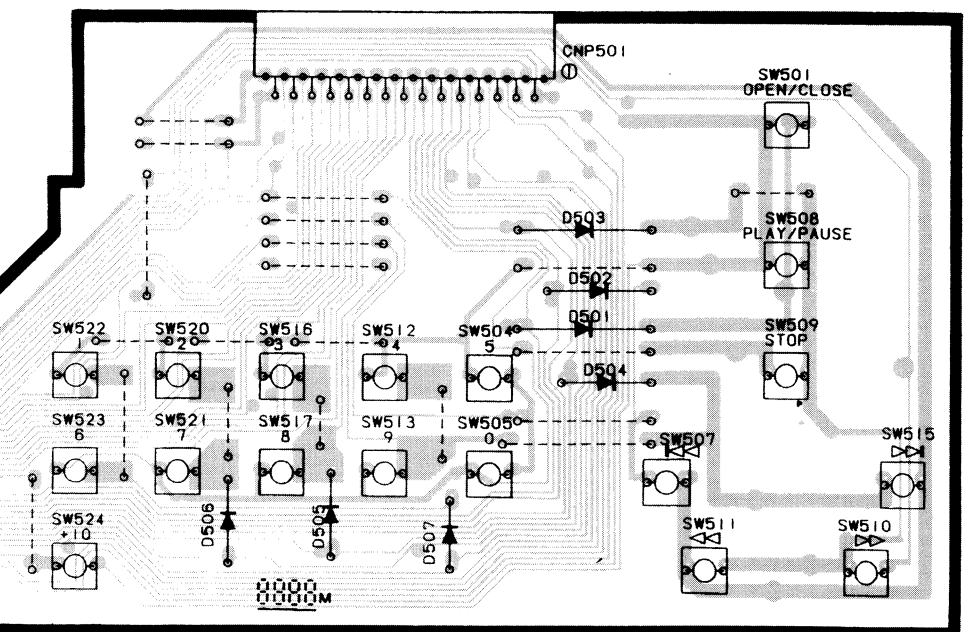
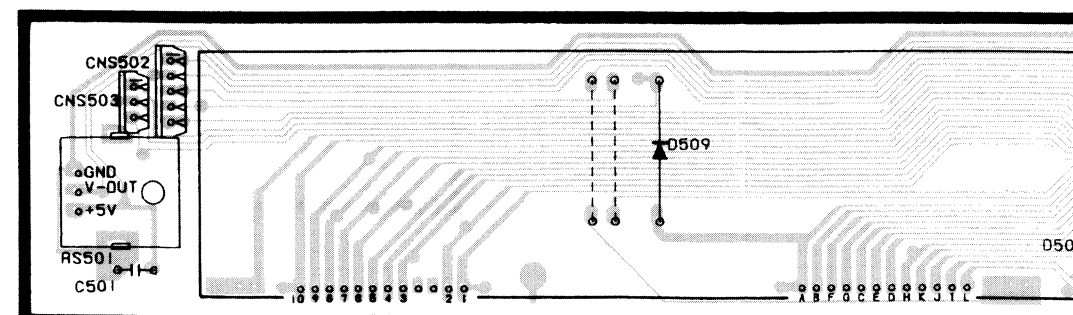
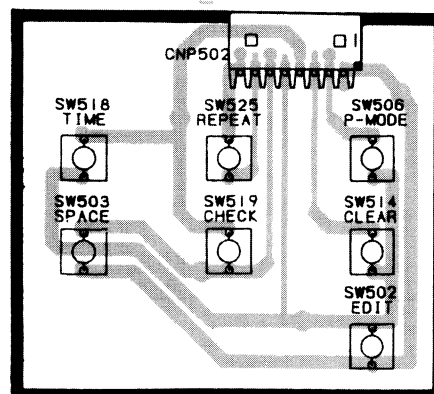
## Oscilloscope

(e) H.F Level confirmation :

1.5Vp-p~2.5Vp-p



## Oscilloscope

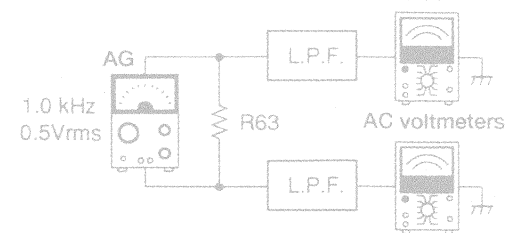




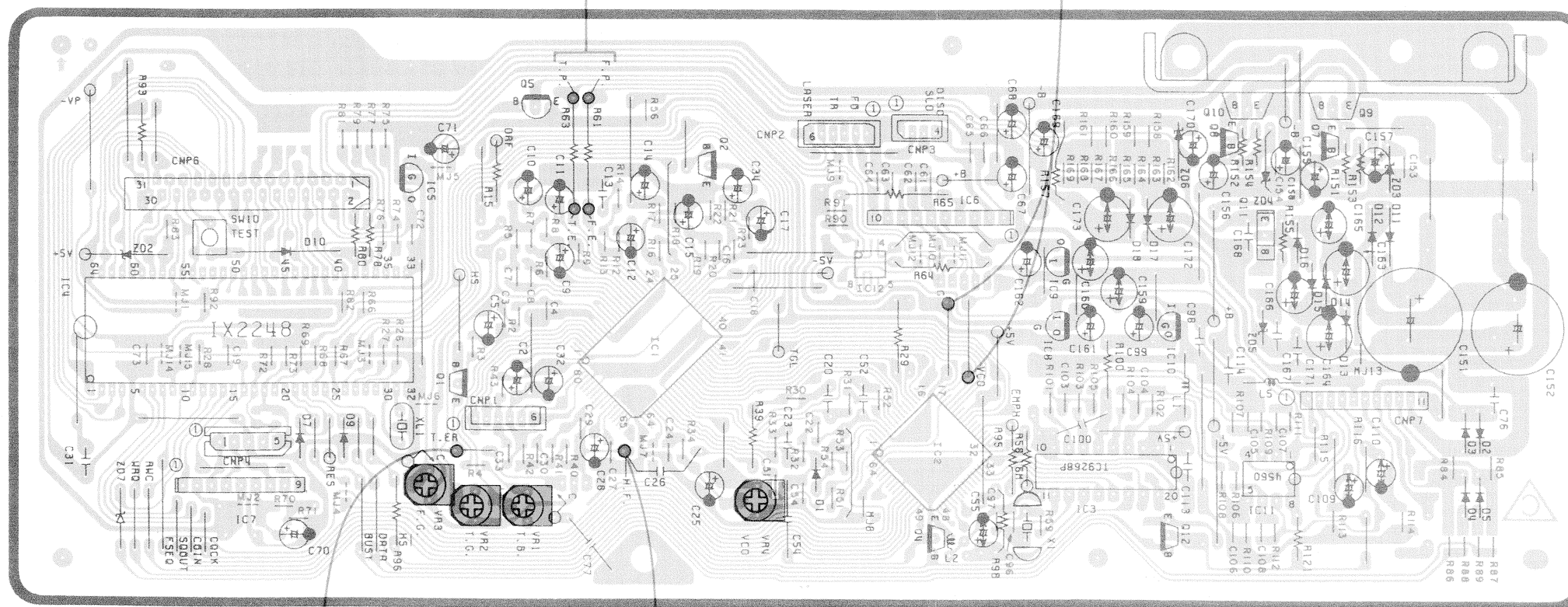


(d) Tracking gain :

Two VTVMs should read the same value.



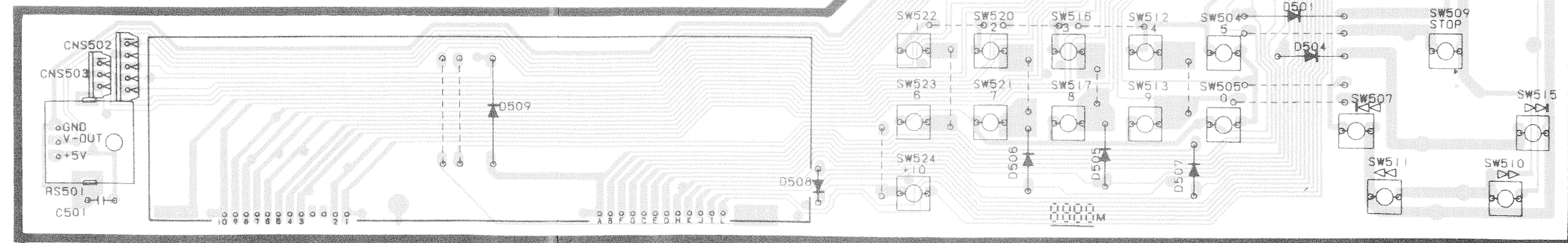
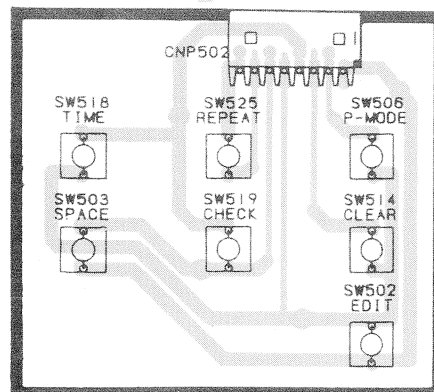
(a) VCO :  $4.05\text{MHz} \pm 15\text{kHz}$



(e) H.F Level confirmation :

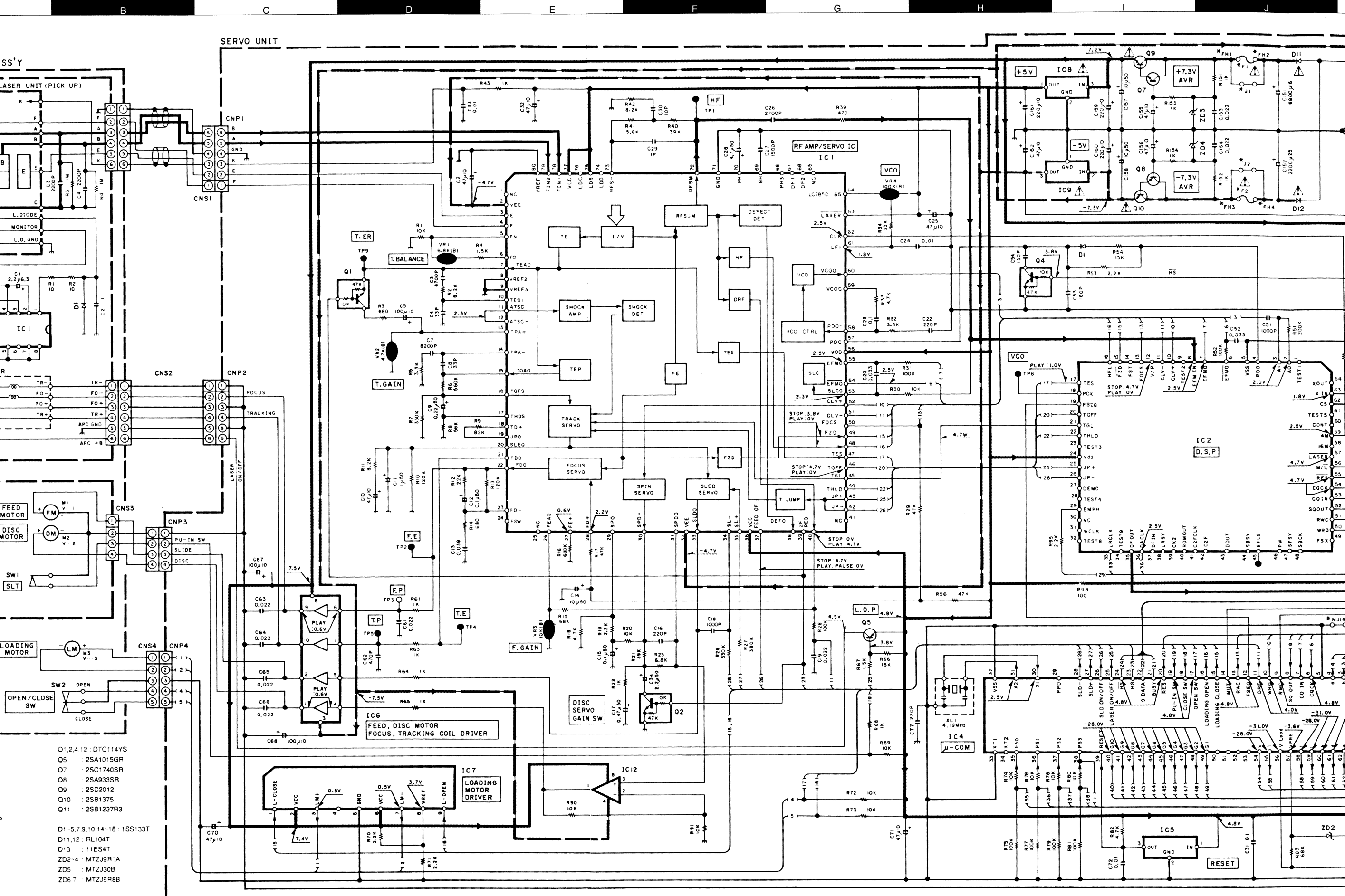
1.5Vp-p~2.5Vp-p

## Oscilloscope





1  
2  
3  
4  
5  
6  
7

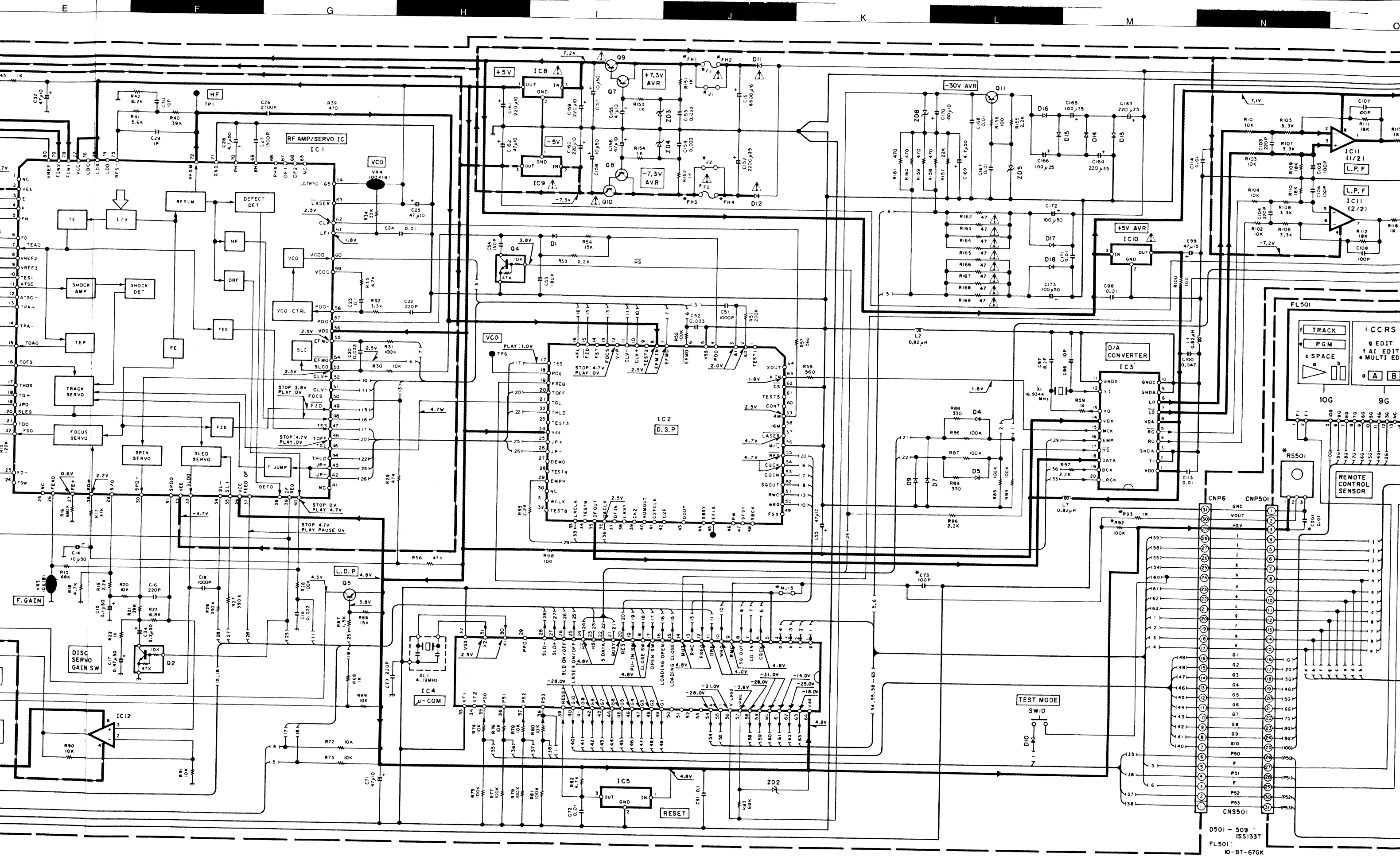


|                  |                             |
|------------------|-----------------------------|
| IC1 : LA9211M    | Q1,2,4,12 : DTC114YS        |
| IC2 : LC78681E   | Q5 : 2SA1015GR              |
| IC3 : TC9268P    | Q7 : 2SC1740SR              |
| IC4 : IX2248     | Q8 : 2SA933SR               |
| IC5 : PST600D    | Q9 : 2SD2012                |
| IC6 : LA6524     | Q10 : 2SB1375               |
| IC7 : TA7291S    | Q11 : 2SB1237R3             |
| IC8 : TA78L005AP |                             |
| IC9 : AN79L05T   | D1-5,7,9,10,14-18 : 1SS133T |
| IC10 : AN78L05T  | D11,12 : RL104T             |
| IC11 : NJM4560D  | D13 : 11ES4T                |
| IC12 : NJM4558M  | ZD2-4 : MTZJ9R1A            |
|                  | ZD5 : MTZJ30B               |
|                  | ZD6,7 : MTZJ6R8B            |

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to individual instruments or/and units.

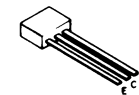




recommended parts (refer to parts list).  $\Delta$  indicates safety critical components.  
carried out (exposed parts are acceptably insulated from the supply circuit)

• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

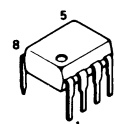
DTC114YS



2S81375  
2SD2012

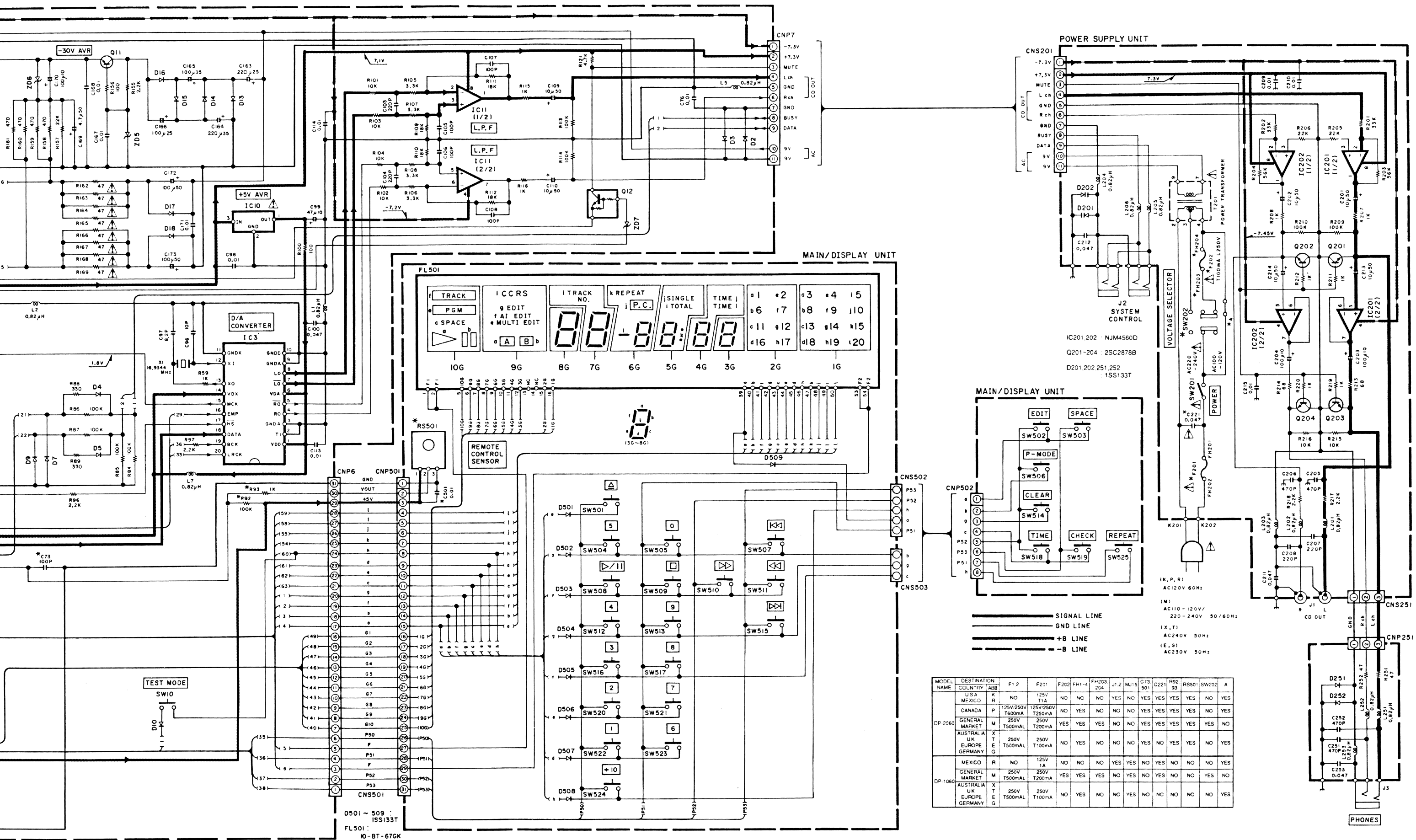


NJM4560D



TA





DTC114YS

2SB1375  
2SD2012

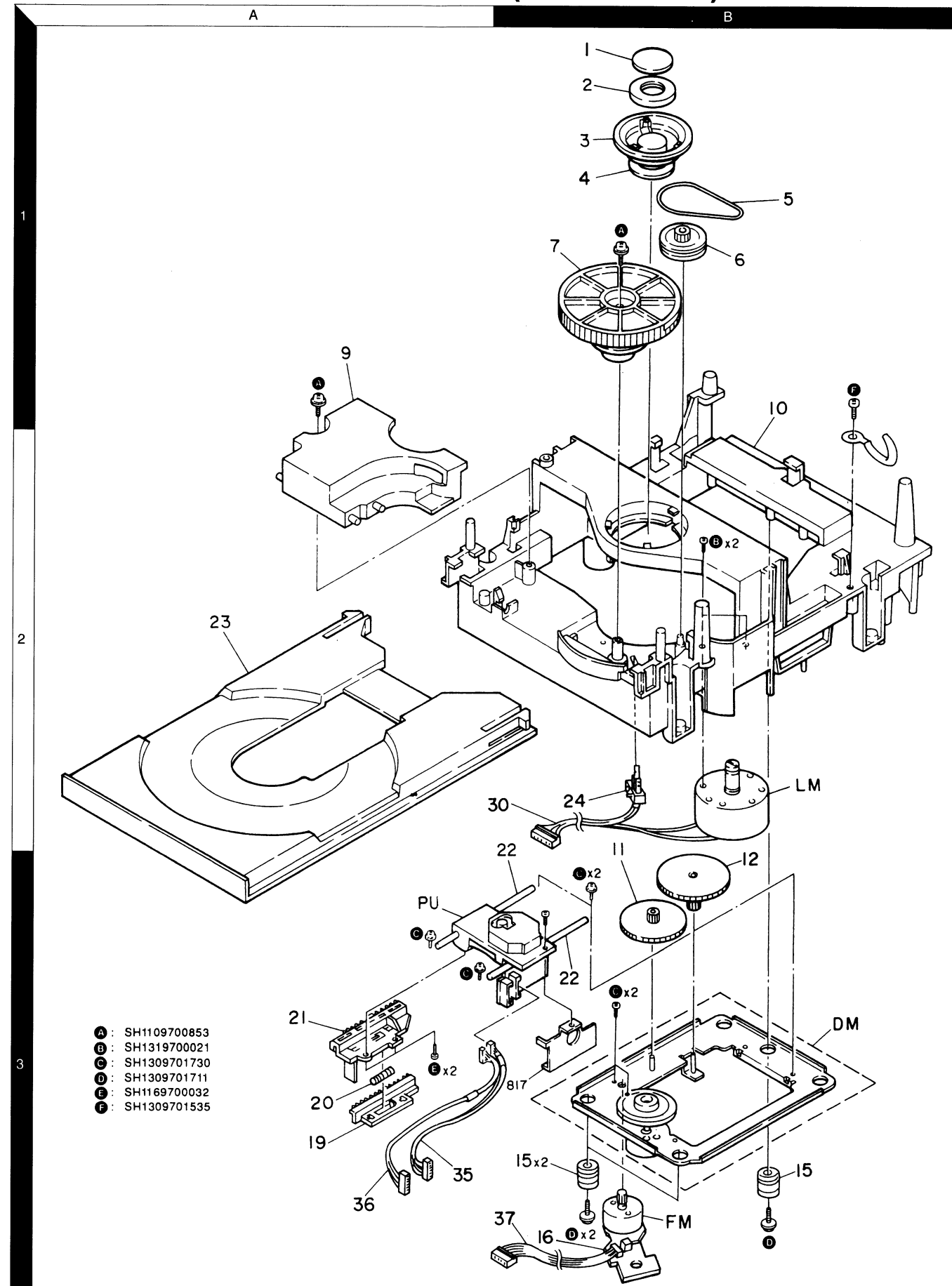
NJM4560D

TA78L005AP

UPD75216ACW-W75



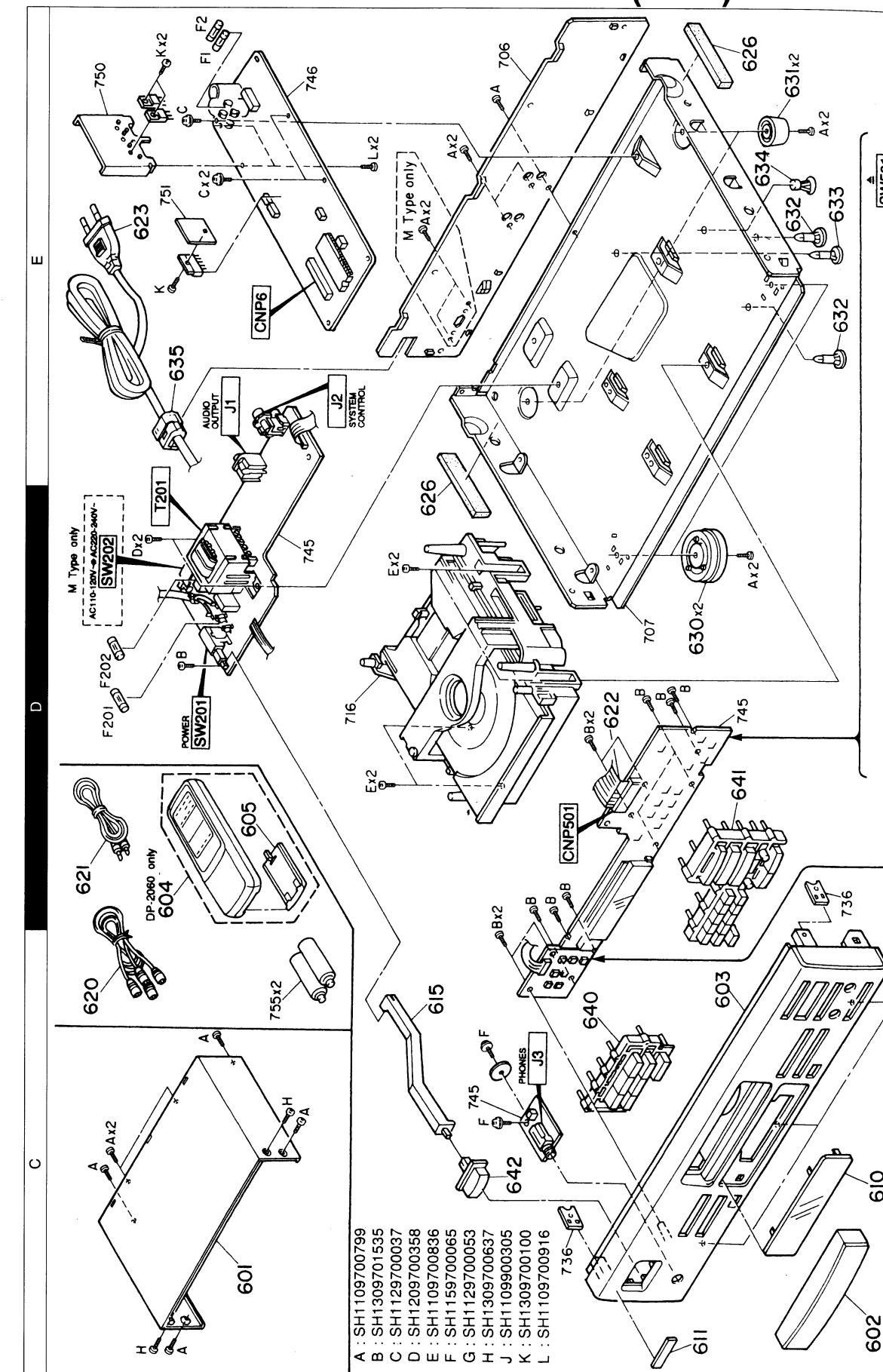
## EXPLODED VIEW (MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied

## DP-1060/2060

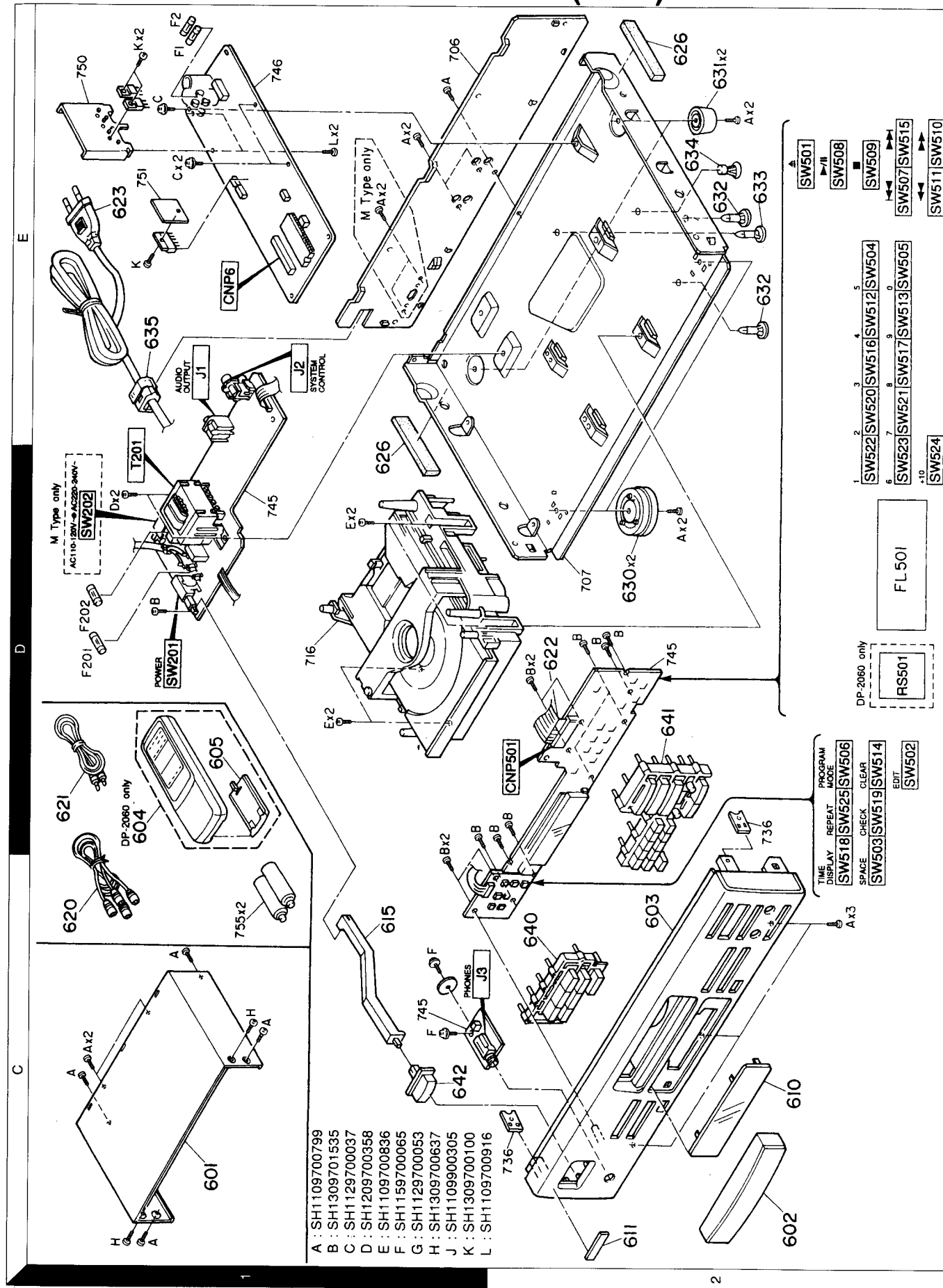
## EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 70



EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied

PARTS LIST

\* New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

| Ref. No.       | Address | Part No.     | Description          | Destination |
|----------------|---------|--------------|----------------------|-------------|
| D              |         | SH1209700358 | SCREW                |             |
| E              |         | SH1109700836 | SPECIAL SCREW        |             |
| F              |         | SH1129700065 | SPECIAL SCREW        |             |
| G              |         | SH1129700053 | R-ANT SCREW          |             |
| H              |         | SH1309700637 | WASHER               |             |
| J              |         | SH1109900305 | SCREW                |             |
| K              |         | SH1309700100 | SCREW                |             |
| L              |         | SH1109700916 | SCREW                |             |
| ELECTRIC PARTS |         |              |                      |             |
| C2             |         | CE04KH1A470M | ELECTRO 47UF 10WV    |             |
| C3             |         | CE04KH1C470M | ELECTRO 47UF 10WV    |             |
| C4             |         | CE04KH1H330J | ELECTRO 33UF 10WV    |             |
| C5             |         | CE04KH1A101M | ELECTRO 10UF 10WV    |             |
| C7             |         | CE04KH1C822M | ELECTRO 8200PF 50WV  |             |
| C8             |         | CE04KH1H330J | ELECTRO 33UF 50WV    |             |
| C9             |         | CE04KH1H222M | ELECTRO 22UF 50WV    |             |
| C10            |         | CE04KH1A470M | ELECTRO 47UF 10WV    |             |
| C11            |         | CE04KH1H010M | ELECTRO 1.0UF 50WV   |             |
| C12            |         | CE04KH1H010M | ELECTRO 0.1UF 50WV   |             |
| C13            |         | CE04KH1H393K | CERAMIC 0.039UF      |             |
| C14            |         | CE04KH1H393K | CERAMIC 0.039UF      |             |
| C15            |         | CE04KH1H010M | ELECTRO 0.1UF 50WV   |             |
| C16            |         | CE04KH1H221K | ELECTRO 0.022UF 50WV |             |
| C17            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C18            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C19            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C20            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C21            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C22            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C23            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C24            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C25            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C26            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C27            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C28            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C29            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C30            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C31            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C32            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C33            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C34            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C35            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C36            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C37            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C38            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C39            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C40            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C41            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C42            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C43            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C44            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C45            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C46            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C47            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C48            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C49            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C50            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C51            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C52            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C53            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C54            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C55            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C56            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C57            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C58            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C59            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C60            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C61            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C62            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C63            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C64            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C65            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C66            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C67            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C68            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C69            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C70            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C71            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C72            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C73            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C74            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C75            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C76            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |
| C77            |         | CE04KH1H010M | ELECTRO 0.01UF 50WV  |             |

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| Ref. No.        | Address | Part No.     | Description                    | Destination |
|-----------------|---------|--------------|--------------------------------|-------------|
| DP-1060/DP-2060 |         |              |                                |             |
| 601             | 1C      | A01-3205-08  | METALLIC CABINET               |             |
| 602             | 2C      | A29-0388-08  | PANEL (TRAY)                   |             |
| 603             | 2C      | A60-0685-08  | PANEL (DP-2060)                |             |
| 604             | 2C      | A60-0686-08  | PANEL (DP-1060)                |             |
| 605             | 1D      | A70-0983-05  | REMOTE ASSY (DP-2060)          |             |
| 606             | 1D      | A09-0170-08  | BATTERY COVER (DP-2060)        |             |
| 607             | 2C      | B10-2077-08  | FRONT GLASS                    |             |
| 608             | 2C      | B43-0287-04  | KEYBOARD BADGE                 |             |
| 609             | 2C      | B60-1680-08  | INSTRUCTION MANUAL (ENGLISH)   |             |
| 610             | 2C      | B60-1681-08  | INSTRUCTION MANUAL (ENG/FRE)   |             |
| 611             | 2C      | B60-1682-08  | INSTRUCTION MANUAL (E/S/C)     |             |
| 612             | 2C      | B60-1683-08  | INSTRUCTION MANUAL (E/F/D/I/S) |             |
| 613             | 2C      | B60-1684-08  | INSTRUCTION MANUAL (GERMAN)    |             |
| 614             | 2C      | B60-1685-08  | INSTRUCTION MANUAL (SPANISH)   |             |
| 615             | 2C      | B60-1935-08  | INSTRUCTION MANUAL (TINIAN)    |             |
| 616             | 2C      | D21-1780-08  | EXTENSION SHAFT                |             |
| 617             | 2C      | E30-0505-05  | AUDIO CORD                     |             |
| 618             | 2C      | E30-2733-05  | CORD WITH PLUG                 |             |
| 619             | 2C      | E35-1046-08  | FLAT CABLE                     |             |
| 620             | 2C      | E30-0459-05  | AC POWER CORD                  |             |
| 621             | 2C      | E30-0974-05  | AC POWER CORD                  |             |
| 622             | 2C      | E30-2750-08  | AC POWER CORD                  |             |
| 623             | 2C      | E30-2753-08  | AC POWER CORD                  |             |
| 624             | 2C      | G10-0199-08  | CHASSIS CUSHION                |             |
| 625             | 2C      | H10-5942-08  | POLYSTYRENE FOAMED FIXTURE     |             |
| 626             | 2C      | H10-5943-08  | POLYSTYRENE FOAMED FIXTURE     |             |
| 627             | 2C      | H25-1542-08  | PROTECTION BAG                 |             |
| 628             | 2C      | H50-1159-08  | ITEM CARTON CASE (DP-2060)     |             |
| 629             | 2C      | H50-1160-08  | ITEM CARTON CASE (DP-2060)     |             |
| 630             | 2C      | H50-1161-08  | ITEM CARTON CASE (DP-1060)     |             |
| 631             | 2C      | H50-1162-08  | ITEM CARTON CASE (DP-1060)     |             |
| 632             | 2C      | J02-1034-05  | FOOT                           |             |
| 633             | 2C      | J02-1120-08  | FOOT                           |             |
| 634             | 2C      | J19-3737-08  | UNIT HOLDER                    |             |
| 635             | 2C      | J19-3738-08  | UNIT HOLDER                    |             |
| 636             | 2C      | J19-3755-08  | UNIT HOLDER                    |             |
| 637             | 2C      | J42-0083-05  | AC CORD BUSHING                |             |
| 638             | 2C      | SH1309330057 | NYLON BAND                     |             |
| 639             | 2C      | K29-6074-08  | KNOB                           |             |
| 640             | 2C      | K29-6075-08  | KNOB                           |             |
| 641             | 2C      | K29-6076-08  | KNOB (POWER)                   |             |
| 642             | 2C      | L07-1867-08  | POWER TRANSFORMER              |             |
| 643             | 2C      | L07-1868-08  | POWER TRANSFORMER              |             |
| 644             | 2C      | L07-1869-08  | POWER TRANSFORMER              |             |
| 645             | 2C      | L07-1870-08  | POWER TRANSFORMER              |             |
| 646             | 2C      | SH1109700799 | SCREW                          |             |
| 647             | 2C      | SH1309701535 | SCREW                          |             |
| 648             | 2C      | SH1129700037 | SPECIAL SCREW                  |             |

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| Ref. No.<br>参照番号 | Address<br>位置 | Parts No.<br>部品番号 | Description<br>部品名 / 規格        | Re-<br>marks<br>仕 |
|------------------|---------------|-------------------|--------------------------------|-------------------|
| DP-1060/DP-2060  |               |                   |                                |                   |
| 601              | 1C            | A01-3205-08       | METALLIC CABINET               |                   |
| 602              | 2C            | A29-0388-08       | PANEL (TRAY)                   |                   |
| 603              | 2C            | A60-0685-08       | PANEL (DP-2060)                |                   |
| 604              | 1D            | A60-0686-08       | PANEL (DP-1060)                |                   |
| 605              | 1D            | A70-0983-05       | REMOCON ASSY (DP-2060)         |                   |
| 610              | 2C            | A09-0170-08       | BATTERY COVER (DP-2060)        |                   |
| 611              | 2C            | B10-2077-08       | FRONT GLASS                    |                   |
| -                | -             | B43-0287-04       | KENWOOD BADGE                  |                   |
| -                | -             | B60-1680-08       | INSTRUCTION MANUAL (ENGLISH)   |                   |
| -                | -             | B60-1681-08       | INSTRUCTION MANUAL (ENG/FRE)   |                   |
| -                | -             | B60-1682-08       | INSTRUCTION MANUAL (E/S/C)     |                   |
| -                | -             | B60-1683-08       | INSTRUCTION MANUAL (E/R/D/I/S) |                   |
| -                | -             | B60-1684-08       | INSTRUCTION MANUAL (GERMAN)    |                   |
| -                | -             | B60-1685-08       | INSTRUCTION MANUAL (SPANISH)   |                   |
| -                | -             | B60-1935-08       | INSTRUCTION MANUAL (TITAN)     |                   |
| 615              | 1C            | D21-1780-08       | EXTENSION SHAFT                |                   |
| 620              | 1C            | E30-0505-05       | AUDIO CORD                     |                   |
| 621              | 1D            | E30-2733-05       | CORD WITH PLUG                 |                   |
| 622              | 2D            | E35-1046-08       | FLAT CABLE                     |                   |
| 623              | 1E            | E30-0459-05       | AC POWER CORD                  |                   |
| 623              | 1E            | E30-0974-05       | AC POWER CORD                  |                   |
| 623              | 1E            | E30-2750-08       | AC POWER CORD                  |                   |
| 623              | 1E            | E30-2753-08       | AC POWER CORD                  |                   |
| 626              | 1D, 2E        | G10-0199-08       | CHASSIS CUSHION                |                   |
| -                | -             | H10-5962-08       | POLYSTYRENE FOAMED FIXTURE     |                   |
| -                | -             | H10-5963-08       | PROTECTION BAG                 |                   |
| -                | -             | H25-1542-08       | ITEM CARTON CASE (DP-2060)     |                   |
| -                | -             | H50-1159-08       | ITEM CARTON CASE (DP-2060)     |                   |
| -                | -             | H50-1159-08       | ITEM CARTON CASE (DP-2060)     |                   |
| -                | -             | H50-1160-08       | ITEM CARTON CASE (DP-2060)     |                   |
| -                | -             | H50-1161-08       | ITEM CARTON CASE (DP-1060)     |                   |
| -                | -             | H50-1162-08       | ITEM CARTON CASE (DP-1060)     |                   |
| 630              | 2D            | J02-1034-05       | FOOT                           |                   |
| 631              | 2E            | J02-1120-08       | UNIT HOLDER                    |                   |
| 632              | 2E            | J18-3737-08       | UNIT HOLDER                    |                   |
| 633              | 2E            | J18-3737-08       | UNIT HOLDER                    |                   |
| 634              | 2E            | J19-3735-08       | UNIT HOLDER                    |                   |
| 635              | 1E            | J42-0083-05       | AC CORD BUSHING                |                   |
| -                | -             | SH1309330057      | NYLON BAND                     |                   |
| 640              | 2C            | K29-6074-08       | KNOB                           |                   |
| 641              | 2D            | K29-6075-08       | KNOB                           |                   |
| 642              | 1C            | K29-6076-08       | KNOB (POWER)                   |                   |
| T201             | 1D            | L07-1867-08       | POWER TRANSFORMER              |                   |
| T201             | 1D            | L07-1868-08       | POWER TRANSFORMER              |                   |
| T201             | 1D            | L07-1869-08       | POWER TRANSFORMER              |                   |
| T201             | 1D            | L07-1870-08       | POWER TRANSFORMER              |                   |
| A                | -             | SH1109700799      | SCREW                          |                   |
| B                | -             | SH1309701535      | SCREW                          |                   |
| C                | -             | SH1129700037      | SPECIAL SCREW                  |                   |

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|------------------|---------------|-------------------|--------------------------------|-------------------|
| C96              |               | CC41DSL1H100J     | CYLND CHIP C 10PF              |                   |
| C97              |               | CC41DSL1H8R2D     | CYLND CHIP C 8.2PF             |                   |
| C98              |               | CC45FB1H103Z      | CERAMIC 0.010UF Z              |                   |
| C99              |               | CE04KW1A470M      | ELECTRØ 47UF 10WV              |                   |
| C100             |               | CK450B1H473Z      | CERAMIC 0.047UF Z              |                   |
| C103, 104        |               | CK41DB1H221K      | CYLND CHIP C 220PF             |                   |
| C105-108         |               | CK41DB1H101K      | CYLND CHIP C 10PF              |                   |
| C109, 110        |               | CE04KW1H100M      | ELECTRØ 0.010UF Z              |                   |
| C113, 114        |               | CK45FB1H103Z      | CERAMIC 0.010UF Z              |                   |
| C151             |               | CE04KW1C682M      | ELECTRØ 6800UF 16WV            |                   |
| C152             |               | CE04KW1E222Z      | ELECTRØ 2200UF 25WV            |                   |
| C153, 154        |               | CK41DB1E223Z      | CYLND CHIP C 0.022UF Z         |                   |
| C155, 156        |               | CE04KW1A470M      | ELECTRØ 47UF 10WV              |                   |
| C157, 158        |               | CE04KW1H100M      | ELECTRØ 100UF 50WV             |                   |
| C159-161         |               | CE04KW1A221M      | ELECTRØ 220UF 10WV             |                   |
| C162             |               | CE04KW1A470M      | ELECTRØ 47UF 10WV              |                   |
| C163             |               | CE04KW1E221M      | ELECTRØ 220UF 25WV             |                   |
| C164             |               | CE04KW1V221M      | ELECTRØ 220UF 35WV             |                   |
| C165             |               | CE04KW1H101M      | ELECTRØ 100UF 50WV             |                   |
| C166             |               | CE04KW1E101M      | ELECTRØ 100UF 25WV             |                   |
| C167, 168        |               | CK45FB1H103Z      | CERAMIC 0.010UF Z              |                   |
| C169             |               | CE04KW1A470M      | ELECTRØ 47UF 10WV              |                   |
| C170             |               | CE04KW1A101M      | ELECTRØ 100UF 10WV             |                   |
| C171             |               | CK45FB1H103Z      | CERAMIC 0.010UF Z              |                   |
| C172C, 173       | C             | CE04KW1H101M      | ELECTRØ 100UF 50WV             |                   |
| C201, 202        |               | CE04KW1H100M      | ELECTRØ 100UF 50WV             |                   |
| C203, 204        |               | CE04KW1A101M      | ELECTRØ 100UF 10WV             |                   |
| C205, 206        |               | CK45FSL1H471J     | CERAMIC 470PF J                |                   |
| C207, 208        |               | CK45FSL1H221K     | CERAMIC 220PF K                |                   |
| C209, 210        |               | CK45FB1H103Z      | CERAMIC 0.010UF Z              |                   |
| C211, 212        |               | CK45FB1H473Z      | CERAMIC 0.047UF Z              |                   |
| C213, 214        |               | CE04KW1H100M      | ELECTRØ 100UF 50WV             |                   |
| C215             |               | CK45FB1H103Z      | CERAMIC 0.010UF Z              |                   |
| C221             |               | SH1105900386      | CERAMIC 0.047UF M              |                   |
| C251, 252        |               | CK45FB1H471K      | CERAMIC 470PF K                |                   |
| C253             |               | CK45FB1H473Z      | CERAMIC 0.047UF Z              |                   |
| C501             |               | CK45FB1H103Z      | CERAMIC 0.010UF Z              |                   |
| CNP6             | 1E            | E40-3871-05       | FLAT CABLE CONNECTOR           |                   |
| CNP501           | 2D            | E40-4211-05       | FLAT CABLE CONNECTOR           |                   |
| J1               | 1E            | E63-0112-08       | PHONE JACK (AUDIO OUTPUT)      |                   |
| J2               | 1E            | B11-0188-05       | MANIATURE PHONE JACK (SYS/CON) |                   |
| J3               | 1C            | B11-0258-08       | PHONE JACK (PHONES)            |                   |
| F1, 2            | 1E            | F05-5016-05       | FUSE (DP-2060)                 |                   |
| F201, 2          | 1E            | F05-0061-08       | FUSE                           |                   |
| F201             | 1D            | F05-1014-05       | FUSE                           |                   |
| F201             | 1D            | F05-1026-05       | FUSE                           |                   |
| F201             | 1D            | F05-0051-08       | FUSE                           |                   |
| F202             | 1D            | F05-2015-05       | FUSE                           |                   |
| FH201, 202       |               | J13-0075-05       | FUSE HOLDER                    |                   |
| L1, 2            |               | L40-8281-17       | CHOKE COIL                     |                   |
| L5               |               | L40-8281-17       | CHOKE COIL                     |                   |
| L7               |               | L40-8281-17       | CHOKE COIL                     |                   |
| L201-206         |               | L40-8281-17       | CHOKE COIL                     |                   |

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|------------------|---------------|-------------------|-------------------------|-------------------|
| D                |               | SH1209700358      | SCREW                   |                   |
| E                |               | SH1109700836      | SPECIAL SCREW           |                   |
| F                |               | SH1159700065      | SPECIAL SCREW           |                   |
| G                |               | SH1129700053      | R-ANT SCREW             |                   |
| H                |               | SH1309700637      | WASHER                  |                   |
| J                |               | SH1109900305      | SCREW                   |                   |
| K                |               | SH1309700100      | SCREW                   |                   |
| L                |               | SH1109700916      | SCREW                   |                   |
| ELECTRIC PARTS   |               |                   |                         |                   |
| C2               |               | CE04KW1A470M      | ELECTRØ 47UF 10WV       |                   |
| C3               |               | CK41DB1C472K      | CYLND CHIP C 4700PF     |                   |
| C4               |               | CC41DSL1H330J     | ELECTRØ 33PF J          |                   |
| C5               |               | CE04KW1A101M      | ELECTRØ 100UF 10WV      |                   |
| C7               |               | CK41DB1C822M      | CYLND CHIP C 8200PF     |                   |
| C8               |               | CC41DSL1H330J     | CYLND CHIP C 33PF J     |                   |
| C9               |               | CE04KW1H221K      | ELECTRØ 0.22UF 50WV     |                   |
| C10              |               | CE04KW1H101M      | ELECTRØ 0.1UF 50WV      |                   |
| C11              |               | CE04KW1H101M      | ELECTRØ 0.1UF 50WV      |                   |
| C12              |               | CE04KW1H01M       | ELECTRØ 0.1UF 50WV      |                   |
| C13              |               | CK45FB1H393K      | CERAMIC 0.039UF K       |                   |
| C14              |               | CE04KW1H100M      | ELECTRØ 100UF 50WV      |                   |
| C15              |               | CE04KW1H01M       | ELECTRØ 0.1UF 50WV      |                   |
| C16              |               | CK41DB1H221K      | CYLND CHIP C 220PF      |                   |
| C17              |               | CE04KW1H47M       | ELECTRØ 0.47UF 50WV     |                   |
| C18              |               | CK41DB1H102K      | CYLND CHIP C 1000PF     |                   |
| C19              |               | CK41DB1E223Z      | CYLND CHIP C 0.022UF Z  |                   |
| C20              |               | CK45FB1H333K      | CERAMIC 0.033UF K       |                   |
| C22              |               | CK41DB1H221K      | CYLND CHIP C 220PF      |                   |
| C23              |               | CK45FB1H104K      | CERAMIC 0.10UF K        |                   |
| C24              |               | CK41DB1C103K      | CYLND CHIP C 0.010UF    |                   |
| C25              |               | CE04KW1A470M      | ELECTRØ 47UF 10WV       |                   |
| C26              |               | CK41FB1H272M      | CYLND CHIP C 2700PF     |                   |
| C27              |               | CK41DB1C152K      | CYLND CHIP C 1500PF     |                   |
| C28              |               | CE04KW1H47M       | ELECTRØ 4.7UF 50WV      |                   |
| C29              |               | CC41DSL1H010C     | CYLND CHIP C 1.0PF      |                   |
| C30              |               | CC41DSL1H100J     | CYLND CHIP C 10PF       |                   |
| C31              |               | CQ92FM1H104J      | MYLAR 0.10UF J          |                   |
| C32              |               | CE04KW1A470M      | ELECTRØ 47UF 10WV       |                   |
| C33              |               | CK41DB1C103K      | CYLND CHIP C 0.010UF    |                   |
| C34              |               | CE04KW1H2R2M      | ELECTRØ 2.2UF 50WV      |                   |
| C35              |               | CK45FB1H333K      | CYLND CHIP C 1000PF     |                   |
| C36              |               | CK45FB1H101K      | CERAMIC 0.033UF K       |                   |
| C37              |               | CK45FB1H181K      | CERAMIC 0.18UF K        |                   |
| C38              |               | CK41FB1H151K      | CYLND CHIP C 150PF      |                   |
| C55              |               | CE04KW1A470M      | ELECTRØ 47UF 10WV       |                   |
| C61              |               | CK41DB1E223Z      | CYLND CHIP C 0.022UF Z  |                   |
| C62              | -66           | CK41DB1H471K      | CYLND CHIP C 470PF      |                   |
| C63              | -68           | CK41DB1E223Z      | CYLND CHIP C 0.022UF Z  |                   |
| C67              | 68            | CE04KW1A101M      | ELECTRØ 100UF 10WV      |                   |
| C70              | 71            | CE04KW1A470M      | ELECTRØ 47UF 10WV       |                   |
| C72              |               | CK41DB1C103K      | CYLND CHIP C 0.010UF    |                   |
| C73              |               | CK41DB1H101K      | CYLND CHIP C 100PF      |                   |
| C76              |               | CK45FB1H103Z      | CERAMIC 0.010UF Z       |                   |
| C77              |               | CK41FB1H221K      | CYLND CHIP C 220PF      |                   |

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|------------------|---------------|-------------------|-------------------------------|-------------------|
| L251-253         |               | L40-8281-17       | CHOKE COIL                    |                   |
| X1               |               | L77-2132-08       | CRYSTAL RESONATOR(16.9344MHz) |                   |
| X11              |               | L78-0267-05       | RESONATOR(4.119MHz)           |                   |
| R1               |               | RD41DB2B103J      | CARBON 10K J 1/8W             |                   |
| R2               |               | RD41DB2B221J      | CARBON 22K J 1/8W             |                   |
| R3               |               | RD41DB2B681J      | CARBON 68K J 1/8W             |                   |
| R4               |               | RD41DB2B152J      | CARBON 15K J 1/8W             |                   |
| R5               |               | RD41DB2B332J      | CARBON 33K J 1/8W             |                   |
| R6               |               | RD41DB2B564J      | CARBON 560K J 1/8W            |                   |
| R7               |               | RD41DB2B334J      | CARBON 330K J 1/8W            |                   |
| R8               |               | RD41DB2B563J      | CARBON 56K J 1/8W             |                   |
| R9               |               | RD41DB2B823J      | CARBON 82K J 1/8W             |                   |
| R10              |               | RD41DB2B124J      | CARBON 120K J 1/8W            |                   |
| R11              |               | RD41DB2B822J      | CARBON 82K J 1/8W             |                   |
| R12              |               | RD41DB2B223J      | CARBON 22K J 1/8W             |                   |
| R13              |               | RD41DB2B124J      | CARBON 120K J 1/8W            |                   |
| R14              |               | RD41DB2B681J      | CARBON 680K J 1/8W            |                   |
| R16              |               | RD41DB2B684J      | CARBON 680K J 1/8W            |                   |
| R17              |               | RD41DB2B473J      | CARBON 47K J 1/8W             |                   |
| R18              |               | RD41DB2B472J      | CARBON 4.7K J 1/8W            |                   |
| R19              |               | RD41DB2B222J      | CARBON 2.2K J 1/8W            |                   |
| R20              |               | RD41DB2B103J      | CARBON 10K J 1/8W             |                   |
| R21              |               | RD41DB2B393J      | CARBON 39K J 1/8W             |                   |
| R22              |               | RD41DB2B102J      | CARBON 1K J 1/8W              |                   |
| R23              |               | RD41DB2B682J      | CARBON 6.8K J 1/8W            |                   |
| R26              |               | RD41DB2B334J      | CARBON 330K J 1/8W            |                   |
| R27              |               | RD41DB2B394J      | CARBON 390K J 1/8W            |                   |
| R28              |               | RD41DB2B104J      | CARBON 100K J 1/8W            |                   |
| R30              |               | RD41DB2B103J      | CARBON 10K J 1/8W             |                   |
| R31              |               | RD41DB2B104J      | CARBON 100K J 1/8W            |                   |
| R32              |               | RD41DB2B332J      | CARBON 33K J 1/8W             |                   |
| R33              |               | RD41DB2B333J      | CARBON 33K J 1/8W             |                   |
| R34              |               | RD41DB2B333J      | CARBON 33K J 1/8W             |                   |
| R40              |               | RD41DB2B393J      | CARBON 39K J 1/8W             |                   |
| R41              |               | RD41DB2B621J      | CARBON 6.2K J 1/8W            |                   |
| R42              |               | RD41DB2B622J      | CARBON 6.2K J 1/8W            |                   |
| R43              |               | RD41DB2B102J      | CARBON 1K J 1/8W              |                   |
| R51              |               | RD41DB2B204J      | CARBON 200K J 1/8W            |                   |
| R52              |               | RD41DB2B104J      | CARBON 100K J 1/8W            |                   |
| R53              |               | RD41DB2B223J      | CARBON 2.2K J 1/8W            |                   |
| R54              |               | RD41DB2B153J      | CARBON 15K J 1/8W             |                   |
| R56              |               | RD41DB2B473J      | CARBON 47K J 1/8W             |                   |
| R57              |               | RD41DB2B561J      | CARBON 560 J 1/8W             |                   |
| R59              |               | RD41DB2B102J      | CARBON 1K J 1/8W              |                   |
| R66              |               | RD41DB2B153J      | CARBON 15K J 1/8W             |                   |
| R67              |               | RD41DB2B152J      | CARBON 1.5K J 1/8W            |                   |
| R68              |               | RD41DB2B103J      | CARBON 10K J 1/8W             |                   |
| R69              |               | RD41DB2B103J      | CARBON 10K J 1/8W             |                   |
| R70, 71          |               | RD41DB2B222J      | CARBON 2.2K J 1/8W            |                   |
| R72 -74          |               | RD41DB2B103J      | CARBON 10K J 1/8W             |                   |
| R75              |               | RD41DB2B104J      | CARBON 100K J 1/8W            |                   |
| R77              |               | RD41DB2B104J      | CARBON 100K J 1/8W            |                   |
| R79              |               | RD41DB2B104J      | CARBON 100K J 1/8W            |                   |
| R81              |               | RD41DB2B104J      | CARBON 100K J 1/8W            |                   |

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PARTS LIST

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|------------------|---------------|-------------|-------------------|---------------------------|------------------------|--------------------|
| Q11              |               |             | 2SB1237R3         | TRANSISTOR                |                        |                    |
| Q12              |               |             | QTC114Y5          | TRANSISTOR                |                        |                    |
| Q201-204         | 2D            |             | 2SC2878B          | TRANSISTOR                |                        |                    |
| RS501            |               |             | 402-1174-05       | ELECTRIC MODULE (DP-2060) |                        |                    |
| MECHANISM PARTS  |               |             |                   |                           |                        |                    |
| 1                | 1B            |             | T50-1067-08       | MAGNET SUPPORT            |                        |                    |
| 2                | 1B            |             | SH1313730001      | MAGNET                    |                        |                    |
| 3                | 1B            | *           | SH102140396       | MAGNET HOLDER             |                        |                    |
| 4                | 1B            |             | G13-0402-08       | MAGNET CUSHION            |                        |                    |
| 5                | 1B            |             | D16-0362-08       | DRIVE BELT                |                        |                    |
| 6                | 1B            |             | D15-0364-08       | DRIVE PULLEY              |                        |                    |
| 7                | 1B            |             | SH102810098       | PISTON GEAR               |                        |                    |
| 10               | 1B            |             | A11-1021-08       | LOADING CHASSIS           |                        |                    |
| 11               | 2B            |             | SH1302810228      | GEAR (MIDDLE)             |                        |                    |
| 12               | 2B            |             | SH1302810229      | GEAR (DRIVE)              |                        |                    |
| 15               | 3B            |             | SH1303260448      | CUSHION                   |                        |                    |
| 16               | 3B            | *           | SH1305301248      | PUSH AMATCH(SLT)          |                        |                    |
| 19               | 3A            |             | SH1302810232      | GEAR (RACK MOVE)          |                        |                    |
| 20               | 3A            |             | SH125280244       | SPRING (RACK)             |                        |                    |
| 21               | 3A            |             | SH1302810231      | GEAR (RACK FIX)           |                        |                    |
| 22               | 2B,3B         |             | SH1302900394      | SHAFT (GUIDE)             |                        |                    |
| 23               | 2A            |             | SH1102140395      | DISC TRAY                 |                        |                    |
| 24               | 2B            |             | S74-0027-08       | LEAF SW (OPEN/CLOSE)      |                        |                    |
| 30               | 2B            | *           | E35-1053-08       | WIRING HARNESS            |                        |                    |
| 35               | 3A            | *           | E35-1050-08       | WIRING HARNESS            |                        |                    |
| 36               | 3A            | *           | E35-1051-08       | WIRING HARNESS            |                        |                    |
| 37               | 3B            | *           | E35-1052-08       | WIRING HARNESS            |                        |                    |
| A                |               |             | SH109700853       | SPECIAL SCREW             |                        |                    |
| B                |               |             | SH1318700021      | SPECIAL SCREW             |                        |                    |
| C                |               |             | SH1309701730      | SCREW                     |                        |                    |
| D                |               |             | SH1309701711      | SCREW+WASHER 3R2W13-1S    |                        |                    |
| E                |               |             | SH118700032       | SCREW                     |                        |                    |
| F                |               |             | SH1309701535      | SCREW                     |                        |                    |
| DM               | 3B            | *           | SH1306300457      | DISC MOTOR                |                        |                    |
| FM               | 3B            |             | SH1256300127      | FEED MOTOR                |                        |                    |
| LM               | 2B            |             | SH1106300200      | MOTOR                     |                        |                    |
| PU               | 3A            |             | T25-0032-08       | CD PICKUP ASSY            |                        |                    |

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|------------------|---------------|-------------|-------------------|-------------------------------|------------------------|--------------------|
| R82              |               |             | RD41DB28472J      | CARBON                        | J 1/8W                 |                    |
| R83              |               |             | RD41DB28683J      | CARBON                        | J 1/8W                 |                    |
| R84 -87          |               |             | RD41DB28104J      | CARBON                        | J 1/8W                 |                    |
| R88 ,89          |               |             | RD41DB28331J      | CARBON                        | J 1/4W                 |                    |
| R92              |               |             | RD41DB28104J      | CARBON                        | J 1/8W                 |                    |
| R97              |               |             | RD41DB28222J      | CARBON                        | J 1/8W                 |                    |
| R101-104         |               |             | RD41DB28103J      | CARBON                        | J 1/8W                 |                    |
| R105-108         |               |             | RD41DB28332J      | CARBON                        | J 1/8W                 |                    |
| R109-112         |               |             | RD41DB28183J      | CARBON                        | J 1/8W                 |                    |
| R113,114         |               |             | RD41DB28104J      | CARBON                        | J 1/8W                 |                    |
| R156             |               |             | RD41DB28101J      | CARBON                        | J 1/8W                 |                    |
| R158-161         |               |             | RD41DB28471J      | CARBON                        | J 1/8W                 |                    |
| R162-169         |               |             | RD41DB28470J      | CARBON                        | J 1/8W                 |                    |
| VR1              |               |             | R12-2048-08       | TRIMMING POT(6.8K)<T.BALANCE> |                        |                    |
| VR2              |               |             | R12-1619-05       | TRIMMING POT(4.7K)<T.GAIN>    |                        |                    |
| VR3              |               |             | R12-3685-05       | TRIMMING POT(10K) <F.GAIN>    |                        |                    |
| VR4              |               |             | R12-3651-05       | TRIMMING POT(100K)<VCO>       |                        |                    |
| SW10             |               |             | SH1305301218      | SWITCH (TEST.MODE)            |                        |                    |
| SW201            |               |             | S68-0036-08       | SWITCH (POWER)                |                        |                    |
| SW202            |               |             | S62-0001-05       | SWITCH (VOLTAGE)              |                        |                    |
| SW501-525        |               |             | SH1305301218      | SWITCH (EJECT etc)            |                        | M                  |
| D1 -5            |               |             | 1S5133T           | DIODE                         |                        |                    |
| D7               |               |             | 1S5133T           | DIODE                         |                        |                    |
| D9 ,10           |               |             | 1S5133T           | DIODE                         |                        |                    |
| D11 ,12          |               |             | RL104T            | DIODE                         |                        |                    |
| D13              |               | *           | 11ES4T            | DIODE                         |                        |                    |
| D14 -18          |               |             | 1S5133T           | DIODE                         |                        |                    |
| D201,202         | 1D            |             | 1S5133T           | DIODE                         |                        |                    |
| D251,252         |               |             | 1S5133T           | DIODE                         |                        |                    |
| D501-509         |               |             | 1S5133T           | DIODE                         |                        |                    |
| FL501            | 2D            |             | 10-BT-67GK        | INDUCTOR TUBE                 |                        |                    |
| ZD2 -4           |               | *           | MTZJ9R1A          | ZENER DIODE                   |                        |                    |
| ZD5              |               | *           | MTZJ30B           | ZENER DIODE                   |                        |                    |
| ZD6 ,7           |               | *           | MTZJ48B8          | ZENER DIODE                   |                        |                    |
| IC1              |               |             | LA9211M           | IC                            |                        |                    |
| IC2              |               |             | LC78481E          | IC                            |                        |                    |
| IC3              |               |             | TC9248P           | IC                            |                        |                    |
| IC4              |               |             | JP275216ACW-W75   | IC                            |                        |                    |
| IC5              |               |             | PST600D           | IC                            |                        |                    |
| IC6              |               |             | LA6524            | IC                            |                        |                    |
| IC7              |               |             | TA7261S           | IC(BRIDGE DRIVER)             |                        |                    |
| IC8              |               |             | TA781005AP        | IC(VOLTAGE REGULATOR / +5V)   |                        |                    |
| IC9              |               |             | AN78L05T          | IC                            |                        |                    |
| IC10             |               |             | AN78L05T          | IC                            |                        |                    |
| IC11             |               |             | NJM4560D          | IC(OP AMP X2)                 |                        |                    |
| IC12             |               |             | NJM4558M          | IC(OP AMP X2)                 |                        |                    |
| IC201,202        |               |             | NJM4560D          | IC(OP AMP X2)                 |                        |                    |
| Q1 ,2            |               |             | DTC114YS          | TRANSISTOR                    |                        |                    |
| Q4               |               |             | DTC114YS          | TRANSISTOR                    |                        |                    |
| Q5               |               |             | 2SA1015GR         | TRANSISTOR                    |                        |                    |
| Q7               |               |             | 2SC1740SR         | TRANSISTOR                    |                        |                    |
| Q8               |               |             | 2SA933SR          | TRANSISTOR                    |                        |                    |
| Q9               |               |             | 2S02012           | TRANSISTOR                    |                        |                    |
| Q10              |               |             | 2SB1375           | TRANSISTOR                    |                        |                    |

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# DP-1060/2060

## SPECIFICATIONS

### [Format]

System ..... Compact disc digital audio system  
Laser ..... Semiconductor laser  
Number of channels ..... 2 channels  
playing rotation ..... 200 rpm ~ 500 rpm (CLV)

### [D/A Convertors]

D/A Conversion ..... 1 Bit  
Oversampling ..... 8 fs (352.8 kHz)

### [Audio]

Frequency response ..... 8 Hz ~ 20 kHz  $\pm$  1.0 dB  
Signal to noise ratio ..... More than 94 dB  
Dynamic range ..... More than 92 dB  
Total harmonic distortion ..... Less than 0.005%

Channel separation ..... More than 83 dB  
Wow & flutter ..... Unmeasurable limit  
Output level/impedance  
Fixed ..... 2.0V/3.3k $\Omega$   
Headphone output ..... 6mW (32 $\Omega$ )

### [General]

Power consumption ..... 12W  
Dimensions ..... W: 440 mm (17 - 5/16")  
H: 106 mm (4 - 3/16")  
D: 310 mm (12 - 3/16")  
Weight (Net) ..... 3.8 kg (8.4 lb)

### Note:

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

### Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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